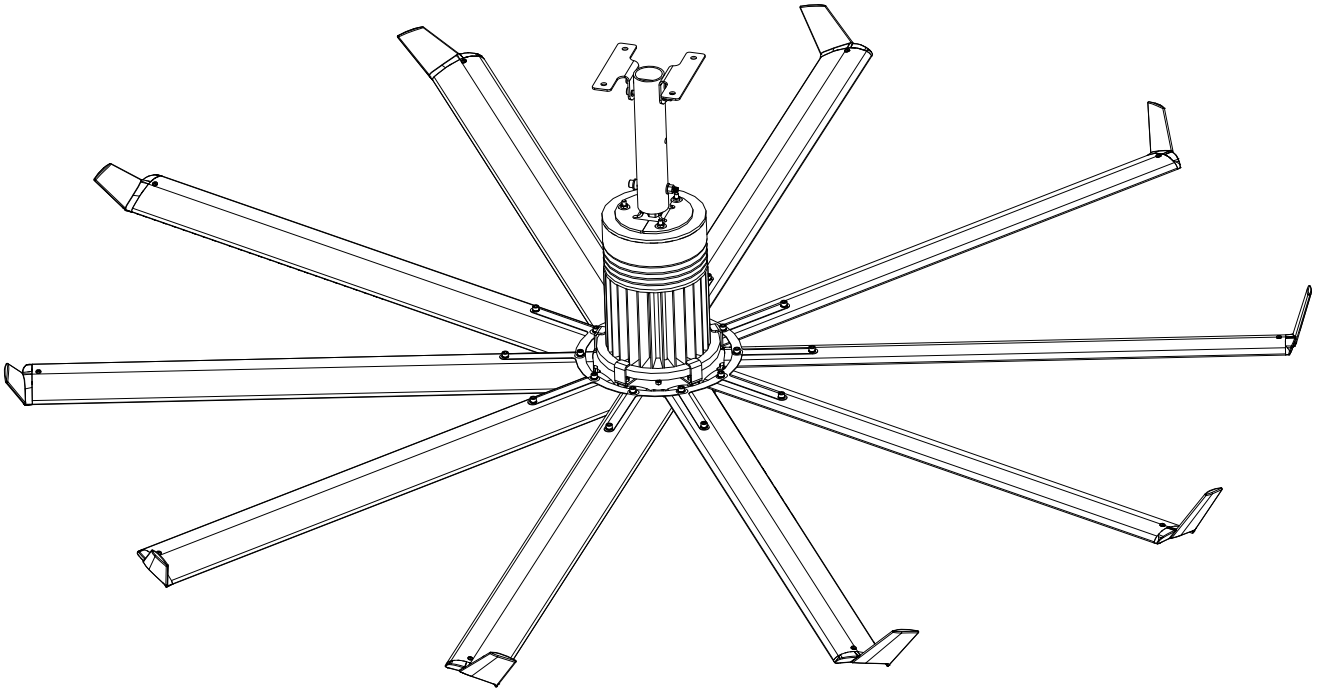
BIG ASS FANS®



INSTALLATION GUIDE

ISIS®

For help, call 1-877-BIG-FANS
or visit www.BigAssFans.com

Installation Checklist

- ☐ **Did a structural engineer approve the mounting structure?** See page 7 for Big Ass Fans-approved mounting structures.
- ☐ **Will the fan be installed so that the airfoils are at least 10 ft (3.05 m) above the floor?**
- ☐ **Will the fan be installed so that the airfoils have at least 2 ft (0.61 m) of clearance from obstructions?**
- ☐ **Will the fan be installed so that it is not subjected to high winds such as from an HVAC system or near a large garage door?** If the fan is mounted at the same level or higher than a diffuser, the winglets or airfoil tips must be at a distance that is at least 1x the measure of the fan's diameter. If the fan is mounted at the same height or below a diffuser, the winglets or airfoil tips must be at a distance that is at least 2x the measure of the fan's diameter.
- ☐ **Will the fan be mounted where it will not come into direct contact with water?** The fan should not be mounted where it will come into direct contact with water unless it is labeled, "Suitable for use in wet locations."
- ☐ **Will the distance between multiple fans be at least 2.5x the fans' diameter when measured from the centers of the fans?**
- ☐ **If you ordered multiple fans, did you keep the parts of each fan together?**
- ☐ **What type of circuit does your building structure have, 3-wire or 2-wire?** Isis is shipped with a controller that is compatible with 3-wire circuits. If your building structure includes a 2-wire circuit, the Limited Access Controller and Remote must be installed with the fan. If you require the Limited Access Controller and did not note it at the time of order, contact Customer Service at 1-877-BIG-FANS.

Customer Service: 1-877-BIG-FANS
(International: 1-859-233-1271)

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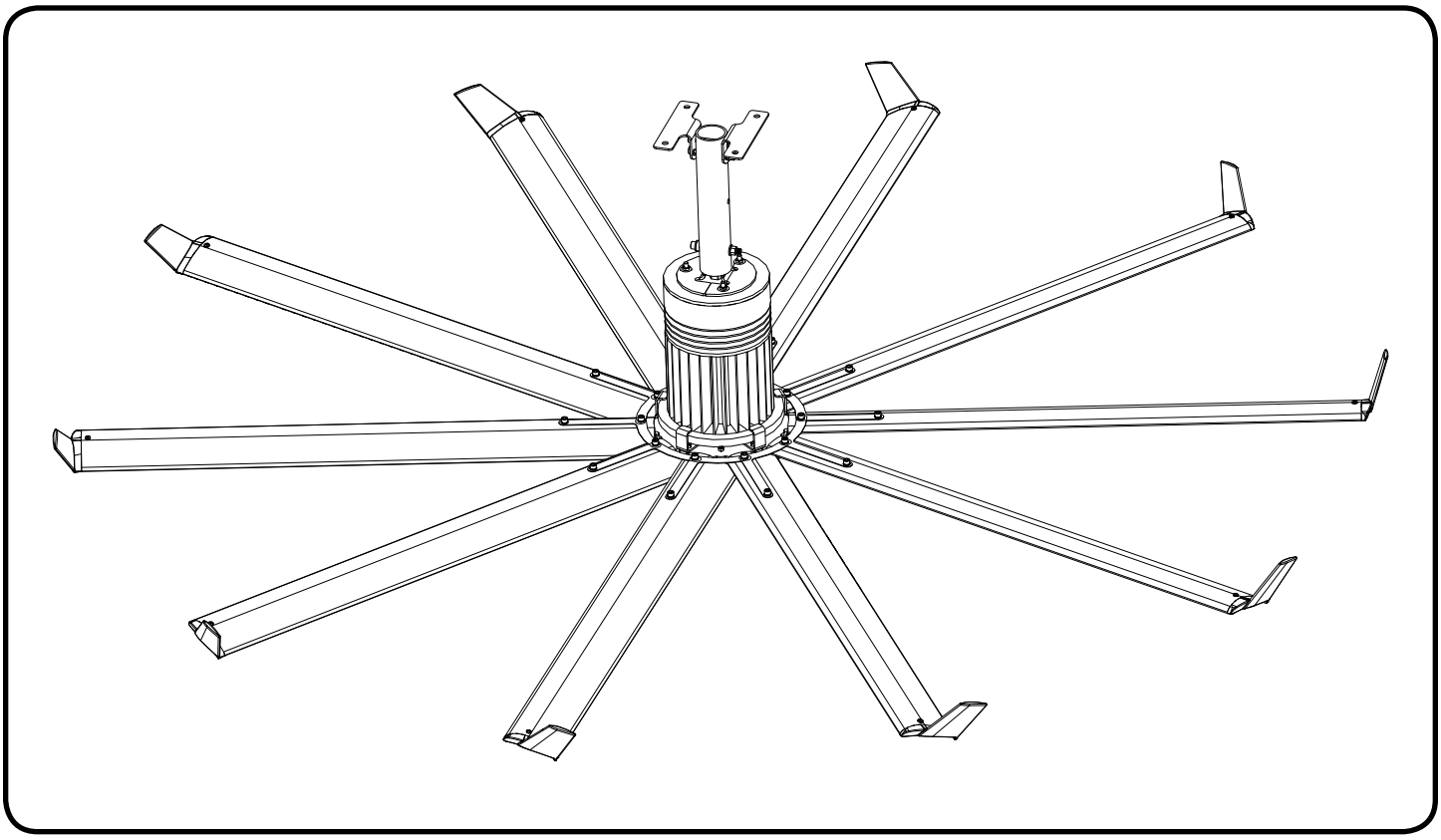
Installation Guide
Isis®



Installation Guide:
Jan. 2013
REV. H

May be covered by one or more of the following United States Patents: 6244821; 6589016; 6817835; 6939108; 7252478; 7284960; D607988; D587799; 7654798; D642674; 7934907; 8079823; D635237; D641075; D650893; D642674; 8075273; D650893; 8147182; 8147204; 8152453; and other patents pending.

2425 Merchant Street
Lexington, KY 40511
1-877-BIG-FANS
www.bigassfans.com

3187235
Conforms to ANSI/UL STD 507–Electric Fans
Certified to CAN/CSA C22.2 No.113–Fans & Ventilators

This product was manufactured in a plant whose Management System is certified as being in conformity with ISO 9001:2008.

Isis and the Isis logo are trademarks of Delta T Corporation, registered in the United States. All other trademarks used herein are the properties of their respective owners. The information contained in this document is subject to change without notice. For the most up-to-date information, see the online Isis Installation Guide at www.bigassfans.com.

IMPORTANT SAFETY INSTRUCTIONS
READ AND SAVE THESE INSTRUCTIONS

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

CAUTION: Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.

CAUTION: When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

WARNING: Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

CAUTION: The installation of a Big Ass Fan must be in accordance with the requirements specified in this installation manual and with any additional requirements set forth by the national electric code (NEC), ANSI/NFPA 70-1999, and all local codes. Code compliance is ultimately YOUR responsibility!

CAUTION: Exercise caution and common sense when powering the fan. Do not connect the fan to a damaged or hazardous power source. Do not attempt to resolve electrical malfunctions or failures on your own. Contact Big Ass Fans at 1-877-BIG-FANS if you have any questions regarding the electrical installation of this fan.

WARNING: To reduce the risk of fire, electric shock, and injury to persons, Big Ass Fans must be installed with Big Ass Fan supplied controllers that are marked (on their cartons) to indicate the suitability with this model. Other parts cannot be substituted.

CAUTION: When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.

WARNING: Risk of fire, electric shock, or injury to persons during cleaning and user-maintenance! Disconnect the fan from the power supply before servicing.

CAUTION: Do not bend the airfoils when installing, adjusting, or cleaning the fan. Do not insert foreign objects in between rotating airfoils.

WARNING: Stay alert, watch what you are doing, and use common sense when installing fans. Do not install fans if tired or under the influence of drugs, alcohol, or medication. A moment of inattention while installing fans may result in serious personal injury.

CAUTION: The installation of this fan requires the use of some power tools. Follow the safety procedures found in the owner's manual for each of these tools and do not use them for purposes other than those intended by the manufacturer.

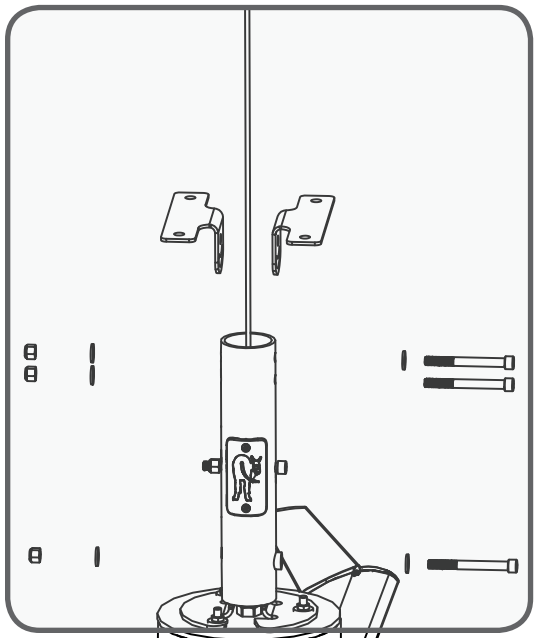
CAUTION: The Big Ass Fans product warranty will not cover equipment damage or failure that is caused by improper installation.

Leave this installation guide with the owner of the fan after installation is complete.

CAUTION: Do NOT install the fan where it may come into direct contact with water unless the fan is labeled, "Suitable for use in wet locations."

Reference Guide

The following is intended as a reference guide. See the referenced pages for complete fan installation and operating instructions.

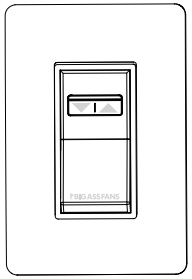


Mounting the fan
If mounting to angle irons, see *Mounting Method: Angle Irons* on page 9.

If mounting in a residential home, see *Mounting Method: Wood Frame* on page 14.

For alternative mounting methods, see page 4.

Hanging the fan
See *Hanging the Fan* on page 18.

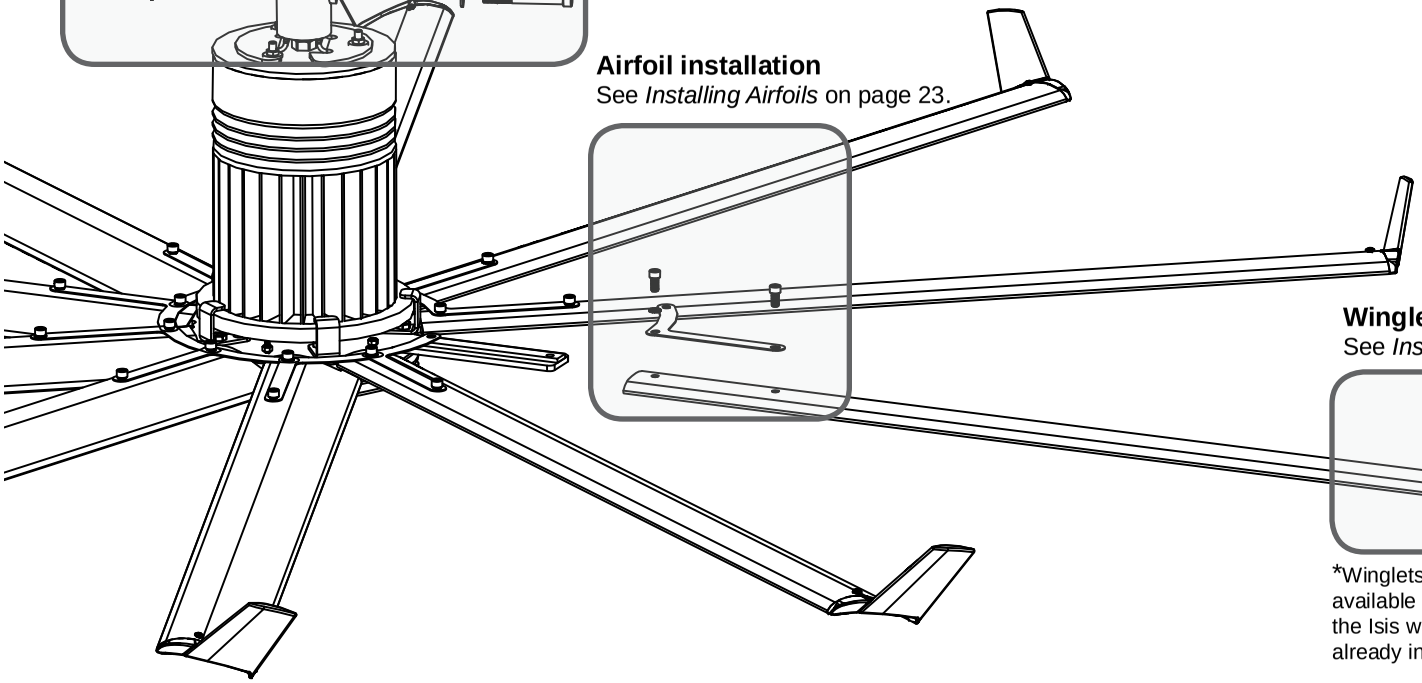


Wiring the controller and fan
See *Electrical Installation* on page 25.

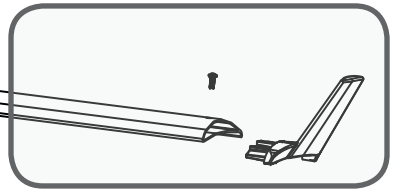
Mounting the controller
See *Mounting the Wall Controller* on page 28.

Operating the fan
See *Fan Operation* on page 29.

Airfoil installation
See *Installing Airfoils* on page 23.



Winglet installation
See *Installing Airfoils* on page 23.



*Winglets are standard. Airfoil tips are available as an option. If you purchased the Isis with airfoil tips, they will arrive already installed on the airfoils.

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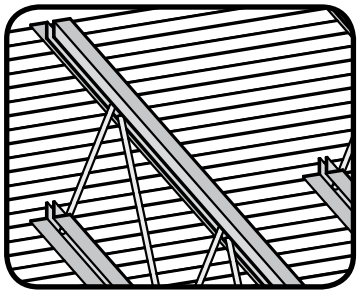
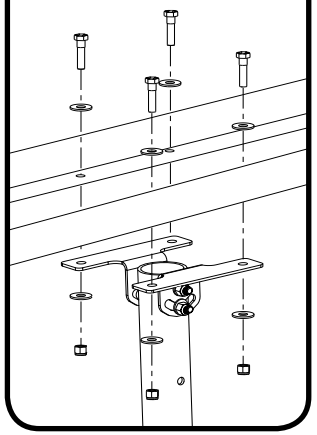
Reference Guide: Mounting

The following is intended as a reference guide for Isis fan mounting methods. See the referenced pages for complete fan installation and operating instructions. Consult a structural engineer to determine which mounting method best suits your building structure. To order optional mounting kits, see the Optional Parts Order Form (p. 37).

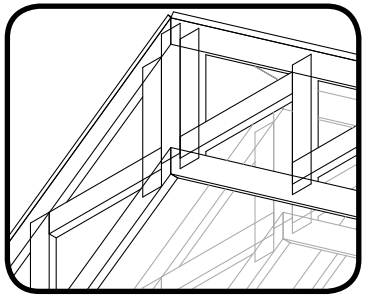
Angle Irons

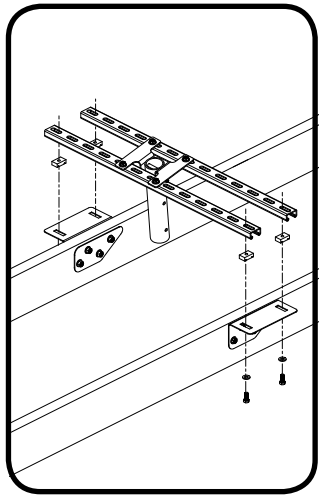




See page 9 for mounting instructions.

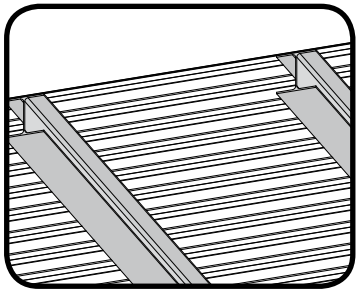
Wood Frame Structures

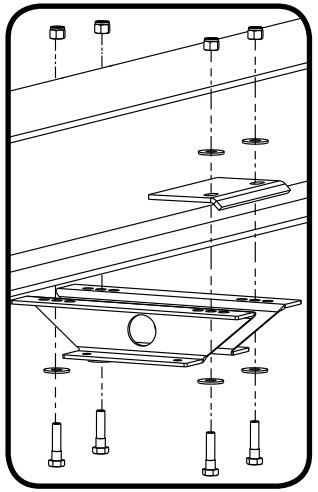




See page 14 for mounting instructions.

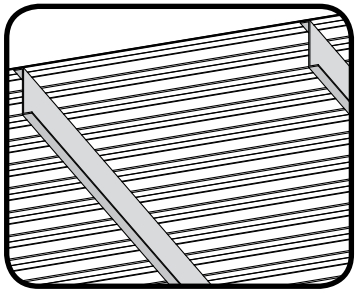
I-Beam

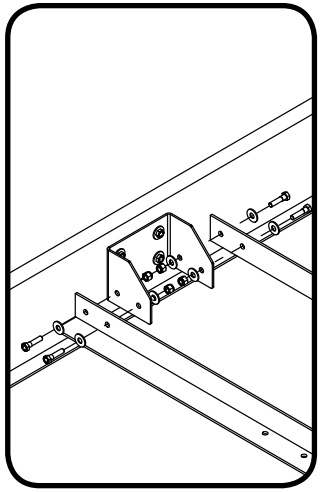




See complete instructions included with the I-Beam Adapter Installation Kit.

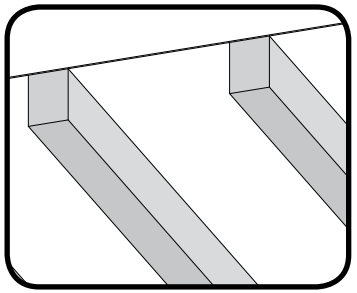
Z-Purlins

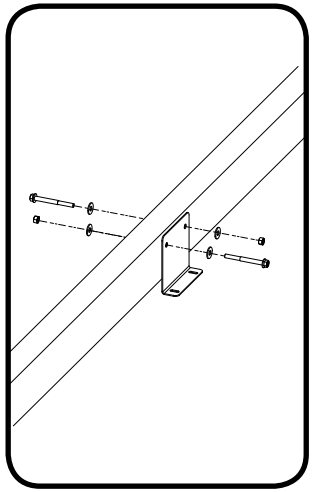




See complete instructions included with the Z-Purlin Installation Kit.

Solid Beam





See complete instructions included with the L-Bracket Installation Kit.

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Introduction 1

Thank you and congratulations on your purchase of a Big Ass Fan, an efficient and cost-effective way to stay cool in the summer and warm in the winter. The revolutionary design of our fans combines the best of both form and function to bring power performance and a sleek look to any setting. More importantly, you have purchased a product that is backed by extensive research, thorough testing, and quality manufacturing. We're ready to answer any questions or comments at 1-877-BIG-FANS or visit our Web site at www.bigassfans.com.

Who we are and what we do

Big Ass Fans has been the preeminent manufacturer of large-diameter, low-speed fans since 1999. With a worldwide presence and located in beautiful Lexington, KY, we research, design, and manufacture the most effective air movement solutions on the market. Our never-ending commitment to quality and innovation keeps us at the leading edge of a burgeoning industry. With an eye to helping customers satisfy their needs, and a strong sense of corporate responsibility to the community, Big Ass Fans has redefined the way business is done.

About this fan

Note: Fan weight does not include upper mount or extension tube.

Fan diameter	Input power	Required circuit size	Full load amps	Max RPM	Airfoil length	Fan weight	Max fan torque
8 ft (2.4 m)	110–125 VAC/60 Hz	10A	3.9	95	44" (1.11 m)	88 lbs (39.9 kg)	30 ft·lb (40.7 N·m)
10 ft (3 m)	110–125 VAC/60 Hz	10A	3.9	60	56" (1.42 m)	96 lbs (43.5 kg)	30 ft·lb (40.7 N·m)
12 ft (3.7 m)	110–125 VAC/60 Hz	10A	3.9	43	68" (1.72 m)	104 lbs (47.1 kg)	30 ft·lb (40.7 N·m)

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2 Pre-Installation

What's in the box

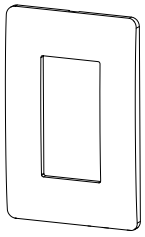
⚠ **CAUTION: Do not remove the motor from its protective packaging prior to hanging it!**

⚠ **CAUTION: If you ordered multiple fans, be sure to keep the components of each fan together.**

The fan is shipped in three labeled boxes. The large, square box contains the main fan unit, upper mount, wall controller, wallplate, airfoil retainers, airfoil hardware, and winglets. A smaller box contains the airfoils. Another small box contains the extension tube. Optional parts are shipped in separate boxes that are labeled to identify the contents. If you are missing any piece required for installation, contact Big Ass Fans at 1-877-BIG-FANS.

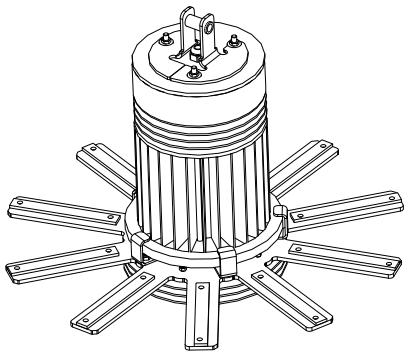
Note: Dashed lines indicate internal boxes or bags within the main box. Drawings below are not to scale. All boxes are labeled to identify the contents.

Main Box[1]

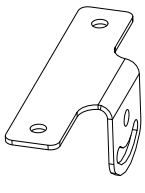


Wallplate[2]

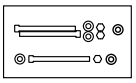
Wall Controller



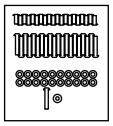
Main Fan Unit



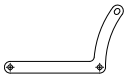
Upper Mount



Hardware

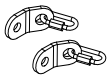


Airfoil Hardware



(10) Airfoil Retainer

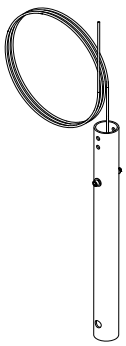
(8) Square Washer



(2) Safety Clip & Carabiner[3]

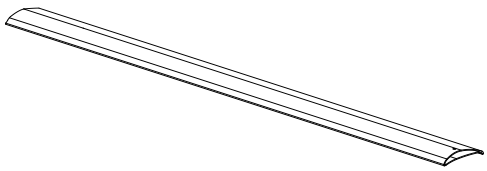
(10) Winglet[4]

Extension Tube Box



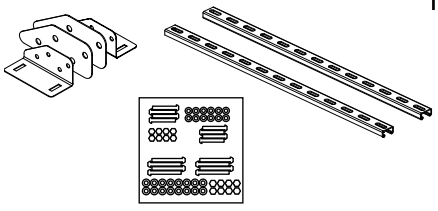
Extension Tube & Safety Cable[6]

Airfoil Box



(10) Airfoil

Wood Frame Mounting Box[5]



Wood Frame Mounting Brackets & Channels

1. Guy wires (if ordered) are marked and packaged separately within the main box. Brackets for guy wires are included for tubes longer than 4 ft.
2. If installing the fan on a typical lighting circuit with one basic light switch, the Limited Access Controller must be installed.
3. Safety clips and carabiners are only used when the top of the mounting structure is inaccessible.
4. Winglets are standard on Isis fans; however, airfoil tips are available as an option. If you purchased the Isis with airfoil tips, they will arrive already installed in the airfoils.
5. Optional. The Wood Frame Mounting kit is only included if ordered.
6. 1-ft extension tubes are labeled and packaged in the main box.

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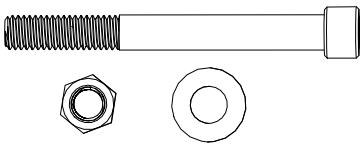
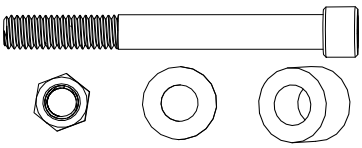
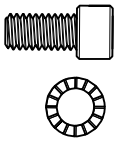
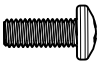
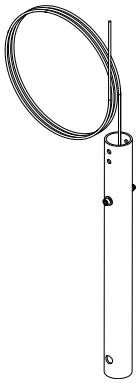
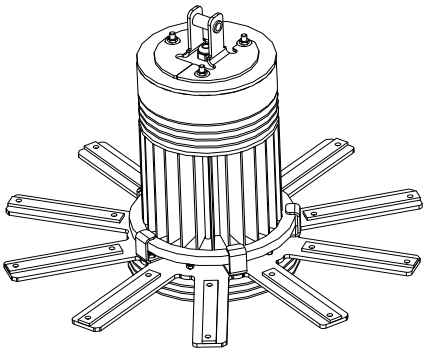
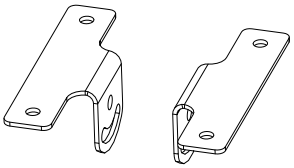
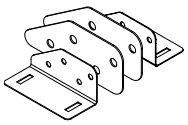
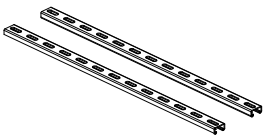
Parts included

Mounting methods vary by mounting structure. See the appropriate Mounting Method section for specialized installation instructions.
Note: Drawings below are not to scale.

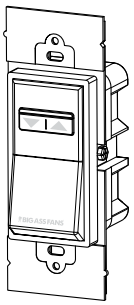
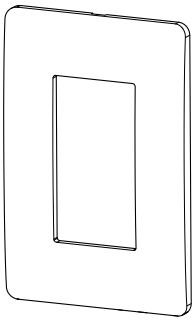
Hardware

			
Extension Tube Hardware: (2) 3/8-16 x 3-1/2” Socket Head Cap Screw (4) 3/8” Flat Washer (2) 3/8” Nylock Nut	**Main Fan Unit Hardware:** (1) 3/8-16 x 3-1/2” Socket Head Cap Screw (1) 3/8” x 3/4” OD x 1/2” Spacer (2) 3/8” Flat Washer (1) 3/8” Nylock Nut	**Airfoil Hardware:** (20) 5/16-18 x 5/8” Bolt (20) 5/16” Wave Washer	**Winglet Hardware:** (10) 10-32 x 1/2” Screw

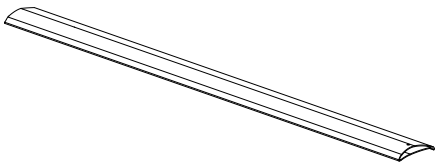
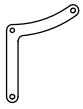
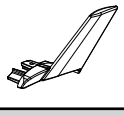
Mounting

			
		Upper Mount	
			
Extension Tube & Safety Cable[1]	Main Fan Unit	Wood Frame Mounting Brackets[2]	Wood Framing Channels[2]

Wall Controller[3]

	
Wall Controller	Wallplate

Airfoils[4]

	
(10) Airfoil	
	
(10) Airfoil Retainer	(10) Winglet

1. The safety cable is attached to extension tube with a 3/8” bolt and nut.
2. Optional. The Wood Frame Mounting kit is only included if ordered.
3. If installing the fan on a typical lighting circuit with one basic light switch, the Limited Access Controller must be installed.
4. Airfoils can be purchased with winglets (standard) or airfoil tips (optional). If you purchased the Isis with airfoil tips, they will arrive already installed in the airfoils. Winglets are installed on the airfoils during Airfoil Installation.

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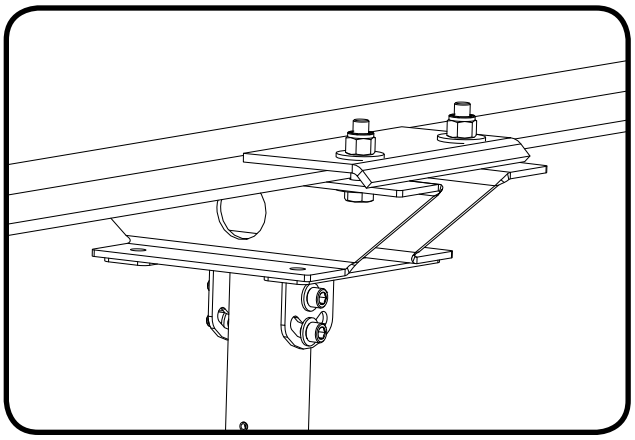
4 Pre-Installation (cont.)

Alternative mounting methods

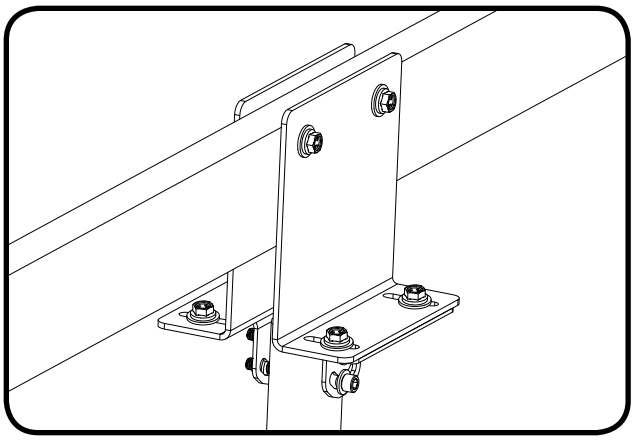
The following can be purchased for unique residential mounting methods not covered in this manual by filling out the Optional Parts Order Form (p. 37). Consult a structural engineer prior to fan installation. For more information, contact your Big Ass Fans Sales Representative or Customer Service at 1-877-BIG-FANS.

I-Beam Adapter



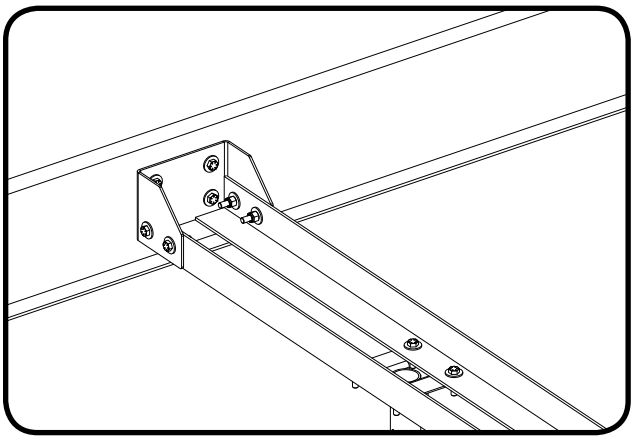
The I-beam adapter can be purchased for hanging the Isis from I-beams. Big Ass Fans offers both a small and large adapter depending on the width of the I-beam. The I-Beam Adapter can only be used on I-beams that are 5" (12.7 cm) to 9-7/8" (25 cm) (small adapter) or 9-7/8" (25 cm) to 14-5/8" (37 cm) (large adapter) in width. It is not recommended to mount the fan from fabricated I-beams. Consult a structural engineer to ensure your building structure meets the necessary requirements.

L-Brackets



L-brackets can be purchased for hanging the Isis from structural beams, such as wooden beams. Slots in the brackets allow for solid beams with thicknesses ranging from 4" (10.2 cm) to 9" (22.9 cm). Consult a structural engineer to ensure your building structure meets the necessary requirements.

Z-Purlin Brackets



Specialized brackets can be purchased for hanging the Isis from building structures consisting of Z-purlins with lengths ≤30 ft and heights ranging from 8" (20.3 cm) to 10" (25.4 cm), and spaced ≤5 ft apart. Consult a structural engineer to ensure your building structure meets the necessary requirements. *Note: Angle irons are not supplied.*

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Tools needed

Big Ass Fans recommends gathering the following tools prior to beginning installation. *Note: This list of suggested tools is not exhaustive. Additional tools may be necessary.*

Mechanical installation
Standard wrench set
Standard socket and ratchet set
Torque wrench capable of 25 ft·lb (33.9 N·m)
Phillips and flat head screwdrivers
Standard allen wrench set
Drill
Hacksaw
Level
Tape measure

Electrical installation
Phillips and flat head screwdrivers
#10 to #14AWG strippers
Medium size channel locks
Multimeter

Important weights

Part	Weight
Upper mount	1.24 lbs (0.56 kg)
Lower mount	1.5 lbs (0.68 kg)
Extension tube (1-ft)	1.21 lbs (0.55 kg)*
Mounting bracket kit	2.54 lbs (1.15 kg)

*Add 3.5 lbs (1.58 kg) for every additional foot of extension tube.

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6 Pre-Installation (cont.)

Fan diagram

Refer to the diagram below to identify the fan components. *Note: Fan setup may differ from the illustration depending on the required mounting method. The safety cable is not pictured below; however, it is an important part of the installation.*

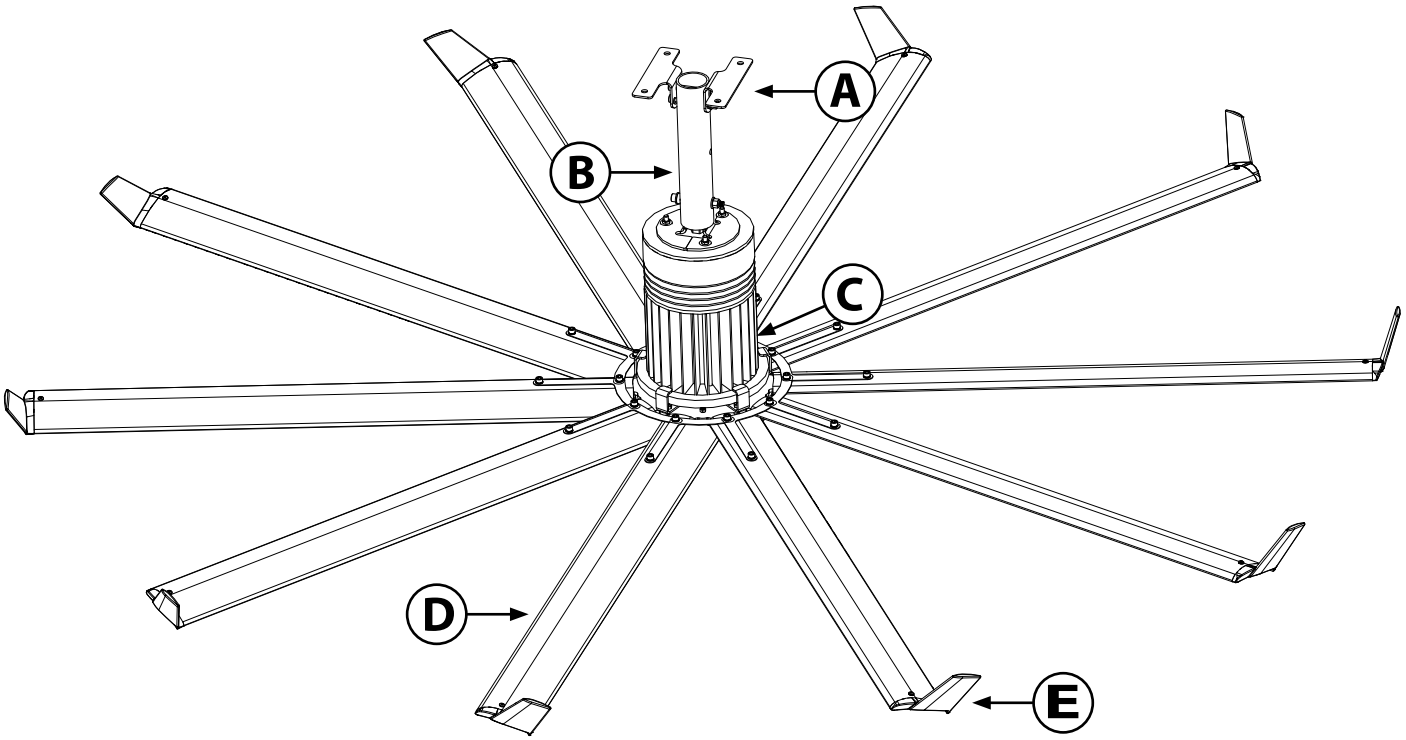
A. Upper mount. Secures the fan to the mounting structure.

B. Extension tube. Extends the fan from the ceiling and provides a path for wiring.

C. Main fan unit. Includes motor, hub, lower mount, and power wire.

D. Airfoil. Provides air movement. The unique, patented design provides efficient and effective air movement.

E. Winglet. Improves efficiency of the fan. Winglets are standard on Isis fans; however, airfoil tips are available as an option. If you purchased the Isis with airfoil tips, they will arrive already installed in the airfoils.



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Preparing the work site

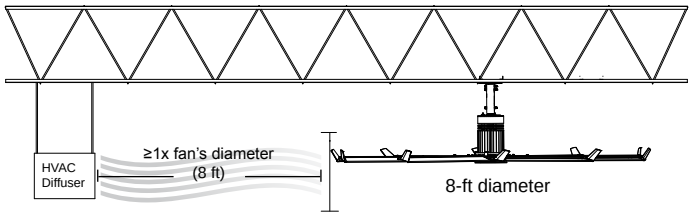
The fan should only be installed according to the instructions described in this manual. Consult a structural engineer for installation methods not covered in this manual. For optional mounting methods, refer to the installation instructions included with the fan parts.

When surveying the work site, keep the following mechanical and electrical guidelines in mind.

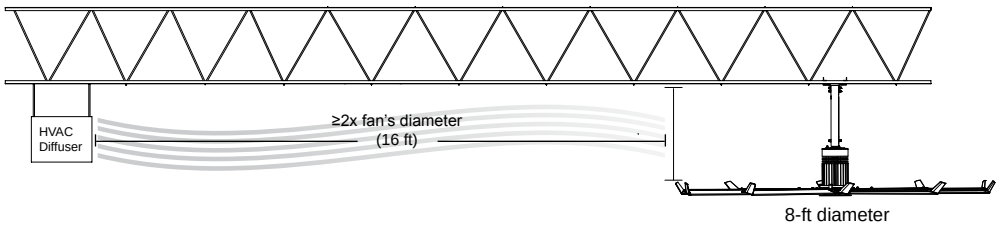
Mechanical

- A suitable means for lifting the weight of the fan, such as a scissor lift, and at least two installation personnel will be required.
- If hanging the fan from an angle iron, the minimum dimensions of the angle iron must be 2-1/2'' × 2-1/2'' × 1/4'' (6.4 cm × 6.4 cm × 0.6 cm) and it cannot be longer than 12 ft (3.6 m). It must be secured to the structure. Do not mount the fan to a single purlin, truss, or bar joist. Consult a structural engineer for installation methods not covered in this manual.
- To reduce the risk of injury to persons, install the fan so that the airfoils are at least 10 ft (3.05 m) above the floor.
- If mounting the fan in the vicinity of an infrared/radiant heater, it is recommended that the fan be mounted outside of the clearances recommended by the manufacturer of the heater and at a height equal to or above the shielding on the heating element with the controller on the opposite side of the heater. If mounting the fan below the heater shielding, all fan elements must be outside of the clearances recommended by the heater manufacturer and the VFD must be remotely mounted. The installation manual for the specific model of heater will typically provide the minimum clearance to combustibles (MCC).
- Ensure the mounting location will not expose the fan to direct contact with water unless the fan is labeled, “Suitable for use in wet locations.”
- Adhere to the safety requirements in the table below when selecting where to mount the fan.

Safety requirement	Minimum distances
Clearance	≥2 ft from all fan parts. The fan installation area must be free of obstructions such as lights, cables, sprinklers, or other building structure.
Blade height	≥10 ft above the floor
HVAC equipment	≥1x fan diameter if above diffuser. ≥2x fan diameter if below diffuser. Refer to the illustration below.
Fan spacing	2.5x fan diameter, center-to-center
Radiant/IR heaters	See the manufacturer’s requirements for the minimum clearance to combustibles.



If the fan is mounted at the same level or higher than a diffuser, the winglets must be at a distance that is at least 1x the measure of the fan’s diameter.



If the fan is mounted below a diffuser, the winglets must be at a distance that is at least 2x the measure of the fan’s diameter.

Electrical

- Identify the existing wiring to determine which wiring application is needed to install the fan.
- If installing the fan on a typical lighting circuit with one basic light switch in which the critical red conductor or “traveler” is absent, you will need to purchase the Limited Access Controller. Please discuss this option with your Big Ass Fans representative.

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Notes

Mounting Method: Angle Irons 9

⚠ **WARNING: The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of attachment. A structural engineer should verify that the mounting structure is adequate prior to fan installation. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in these installation instructions.**

⚠ **CAUTION: Do not install the fan where it will be continuously subjected to external air forces, such as from high winds or an HVAC system. Big Ass Fans recommends installing the fan at least 2x the fan diameter (center of fan to equipment) away from any HVAC discharge unit; however, it is the installer's responsibility to verify the safe performance of the fan when operated in the intended environment.**

⚠ **CAUTION: Do not install the fan from a single purlin or truss or junction box.**

⚠ **CAUTION: Unsupported angle iron spans should not exceed 12 ft (3.7 m).**

⚠ **CAUTION: Ensure the mounting location will not expose the fan to direct contact with water unless the fan is labeled, "Suitable for use in wet locations."**

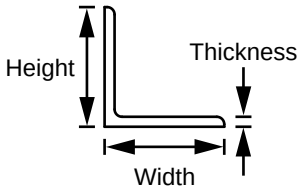
1. Select proper angle irons

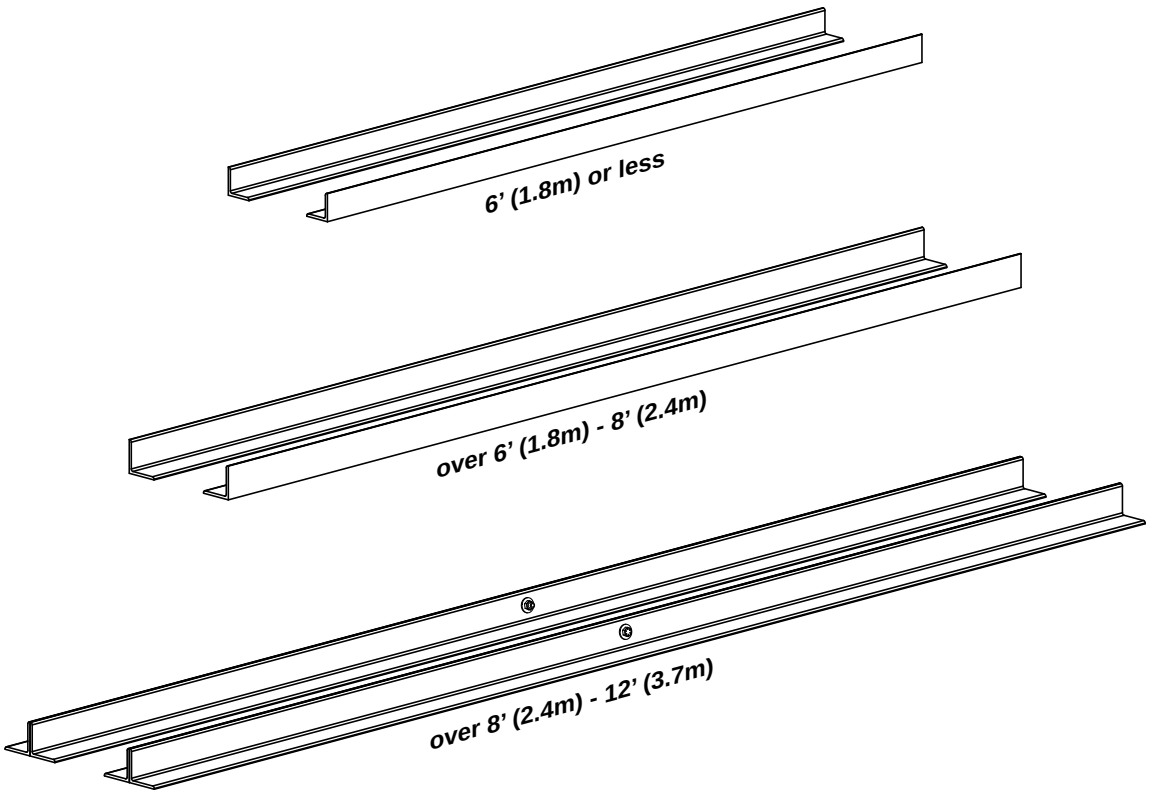
Follow the table below when selecting angle irons for fan installation. *Note: Angle irons and angle iron hardware are not included with the fan.*

Angle iron span (between mounting points)	**Minimum angle iron dimensions** (W x H x T)	**Number of angle irons needed**
6 ft (1.8 m) or less	2.5" (6.4 cm) x 2.5" (6.4 cm) x 0.25" (0.6 cm)	2
over 6 ft (1.8 m) to 8 ft (2.4 m)	3" (7.6 cm) x 3" (7.6 cm) x 0.25" (0.6 cm)	2
over 8 ft (2.4 m) to 12 ft (3.7 m)	3" (7.6 cm) x 3" (7.6 cm) x 0.25" (0.6 cm)	4*

*Two pairs of angle irons. Pairs should be placed back to back and fastened in center (see step 2).

Angle Iron Side View
(see table for dimensions)





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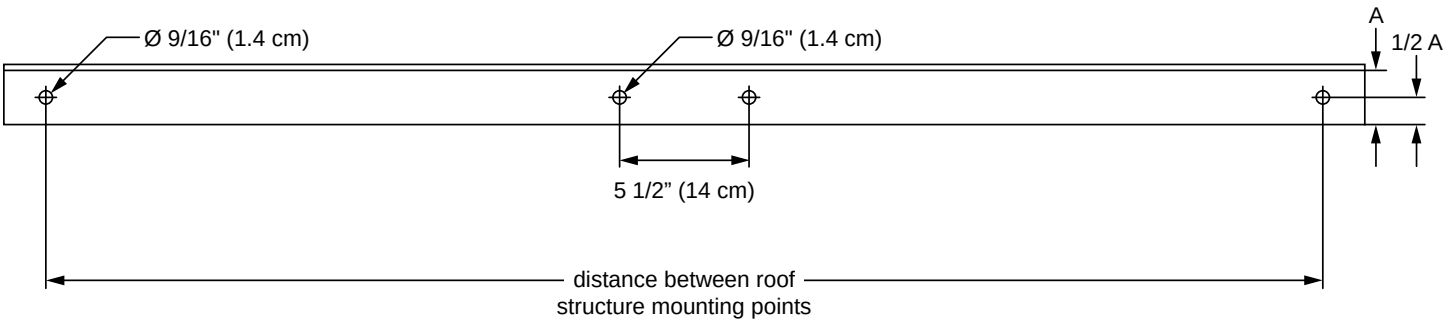
2. Pre-drill angle irons

Drill two Ø 9/16”(1.4 cm) holes exactly 5-1/2” (14 cm) apart in the centers of two angle irons.

Measure the distance between the mounting points of the roof structure that the angle irons will span. Measure the same distance on the angle irons, and drill Ø 9/16” (1.4 cm) holes through each end of the angle irons. Drill holes in two angle irons if span is 8 ft (2.4 m) or less. Drill holes in four angle irons if span is greater than 8 ft (2.4 m).



3. Secure angle irons (if span is longer than 8 ft)

If the angle iron span is 8 ft (2.4 m) or less, proceed to step 4a on the following page.

If the angle iron span is longer than 8 ft (2.4 m), it is necessary to use double angle irons.

Locate the center of the angle iron length. Drill Ø 9/16” (1.4 cm) hole through the center of the vertical wall of the angle iron. Drill a total of four angle irons.

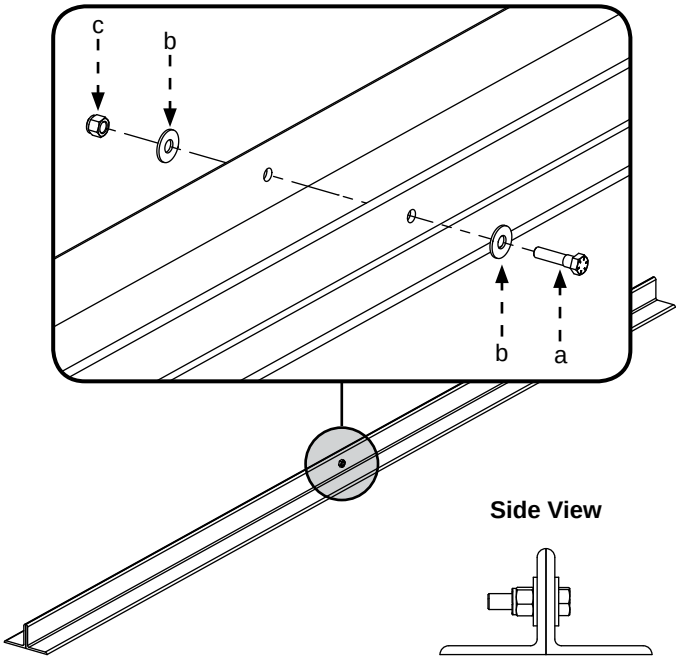
Place two drilled angle irons back to back. Fasten the angle irons together with customer-supplied Grade 8 hardware.

Align the angle irons to each other and tighten the bolts to **25 ft·lb (33.9 N·m)** using a 3/4” socket with torque wrench.

Repeat step for remaining two angle irons.

Proceed to step 4b.

Angle Iron Hardware (Customer-Supplied):
a. (2) 1/2-13 Bolt
b. (4) 1/2” Washer
c. (2) 1/2” Nut



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4a. Fasten single angle irons to roof structure mounting points

If installation requires double angle irons, i.e., span is greater than 8 ft (2.4 m), proceed to step 4b.

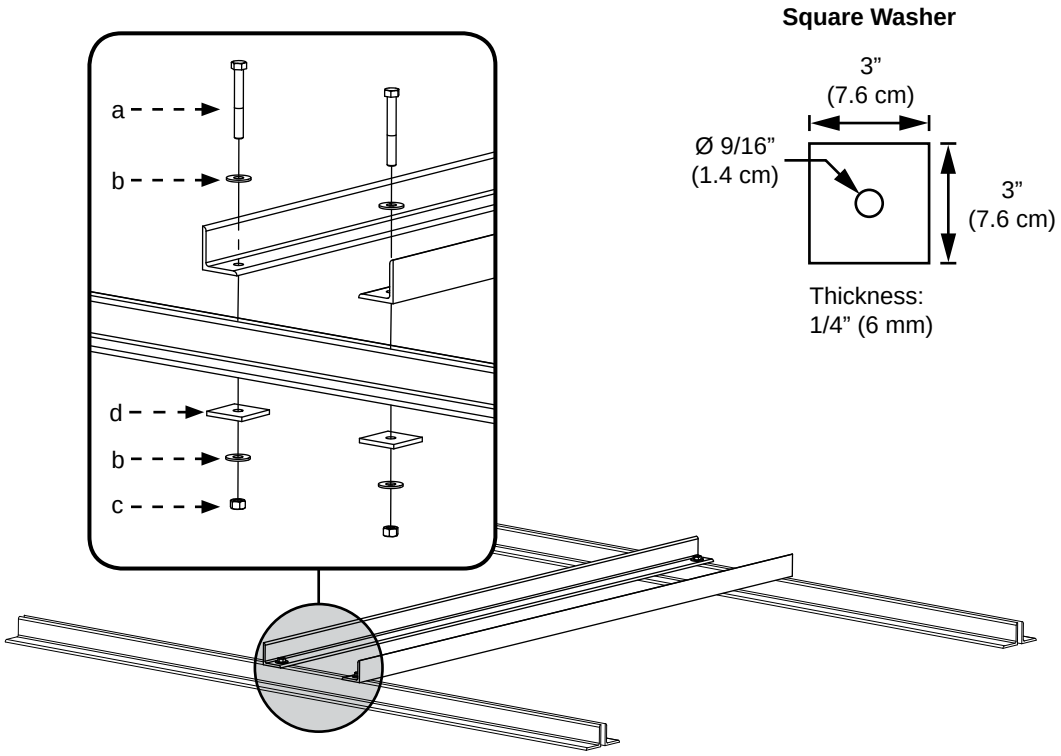
⚠ **CAUTION: The angle irons must be fastened to the roof structure at each end.**

Fasten the angle irons to the roof structure mounting points at each end with customer-supplied Grade 8 hardware as shown. **Do not tighten the hardware until the fan has been mounted to the angle irons.** *Note: Big Ass Fans recommends orienting the angle irons so that the horizontal legs are facing each other. Refer to the illustration below.*

Proceed to step 5.

Angle Iron Hardware (Customer-Supplied):
a. (4) 1/2-13 Bolt
b. (8) 1/2” Washer
c. (4) 1/2” Nut

Angle Iron Hardware (BAF-Supplied):
d. (8) 3” Square Washer (see diagram)



Square Washer

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4b. Fasten double angle irons to roof structure mounting points

⚠ **CAUTION: The angle irons must be fastened to the roof structure at each end.**

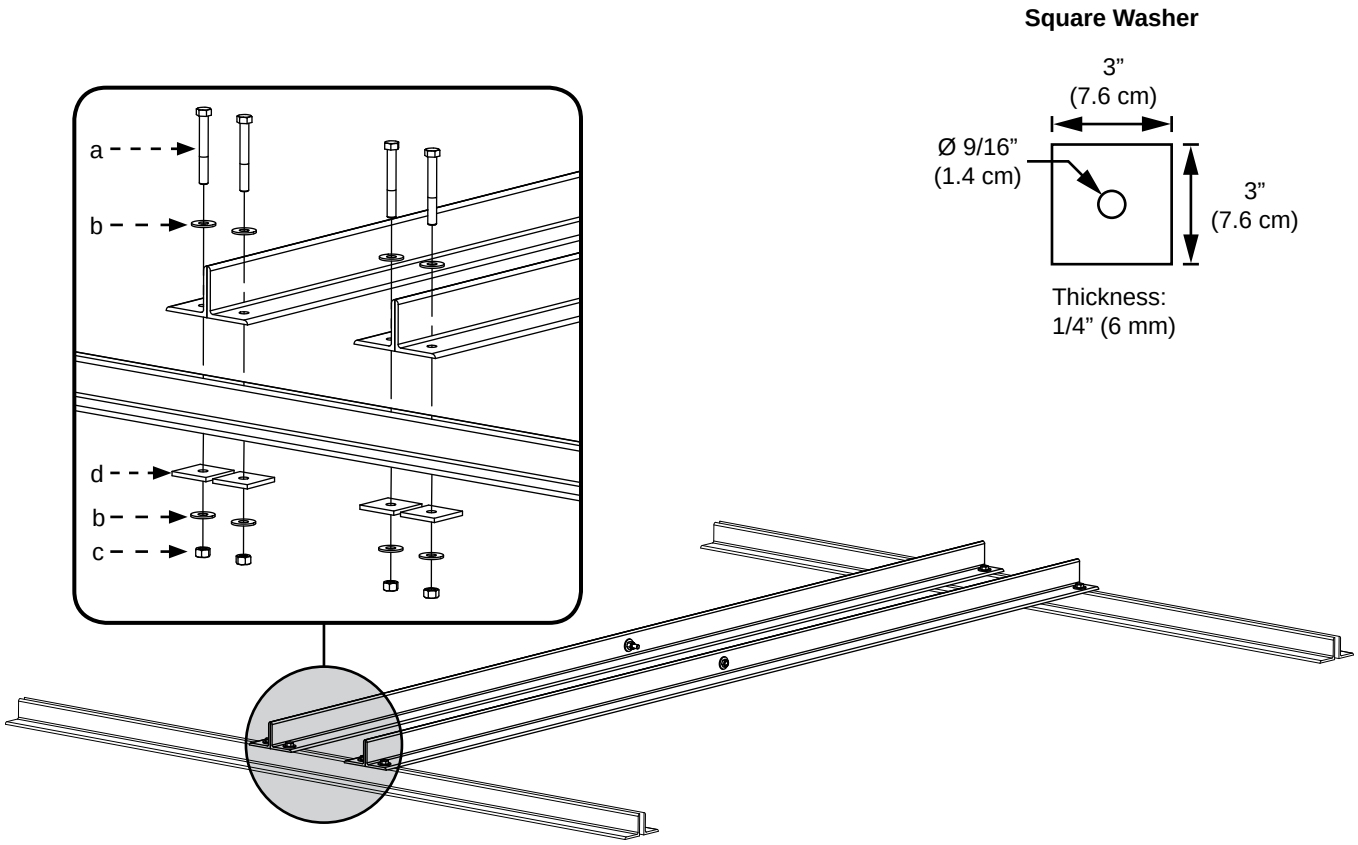
⚠ **CAUTION: The angle irons with fan mounting holes should be positioned on the inside, facing each other.**

Fasten the angle irons to the roof structure mounting points at each end with customer-supplied Grade 8 hardware as shown. **Do not tighten the hardware until the fan has been mounted to the angle irons.**

Proceed to step 5.

Angle Iron Hardware (Customer-Supplied):
a. (8) 1/2-13 Bolt
b. (16) 1/2” Washer
c. (8) 1/2” Nut

Angle Iron Hardware (BAF-Supplied):
d. (8) 3” Square Washer (see diagram)



Square Washer

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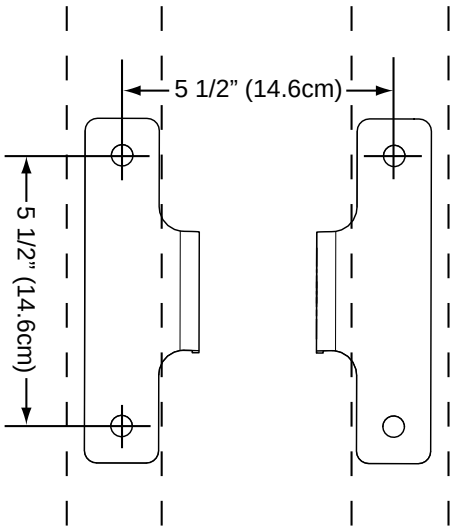
5. Attach upper mount (to angle irons)

⚠ **CAUTION: After attaching the upper mount to the angle irons, tighten all the bolts securing the angle irons to the roof structure to 25 ft·lb (33.9 N·m) using a torque wrench and a 9/16" socket.**

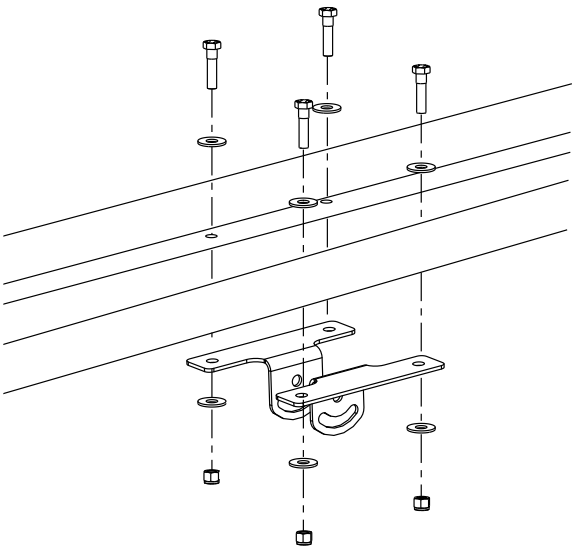
Secure the upper mount directly to the angle irons with the Mounting Hardware as shown. Consult the diagrams below for distances between the angle irons. Torque the bolts to **25 ft·lb (33.9 N·m)** using a torque wrench with a 9/16" socket.

Note: If desired, the upper mount and extension tube can be pre-assembled. DO NOT tighten the bolts until the fan is installed and hanging freely to allow for balancing.

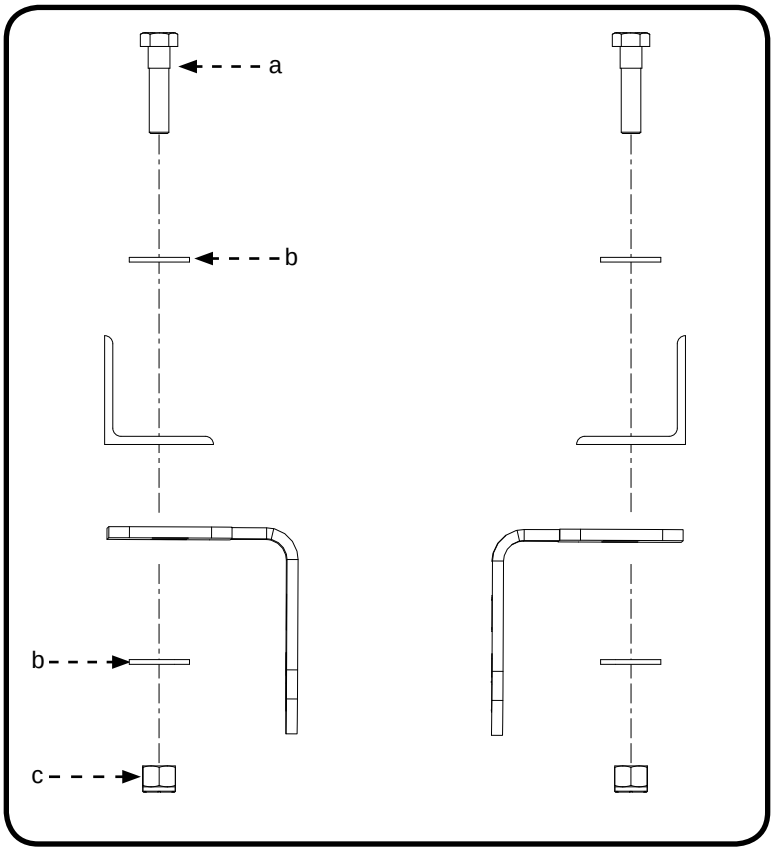
Mounting Hardware (BAF-Supplied):
a. (4) 3/8-16 x 1-1/2" GR 8 Bolt
b. (8) 3/8'' Flat Washer
c. (4) 3/8"-16 Nylock Nut



Note: Dashed lines represent angle irons.



Side View



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14 Mounting Method: Wood Frame

Wood framing channels are mainly used in residential homes. Consult a structural engineer to ensure you have selected the correct mounting method for your building structure.

⚠ **WARNING: The fan should not be installed unless the structure on which the fan is to be mounted is of sound construction, undamaged, and capable of supporting the loads of the fan and its method of attachment. A structural engineer should verify that the structure is adequate prior to fan installation. Verifying the stability of the mounting structure is the sole responsibility of the customer and/or end user, and Big Ass Fans hereby expressly disclaims any liability arising therefrom, or arising from the use of any materials or hardware other than those supplied by Big Ass Fans or otherwise specified in these installation instructions.**

⚠ **CAUTION: Do not install the fan where it will be continuously subjected to external air forces, such as from high winds or HVAC system. Big Ass Fans recommends installing the fan at least 2x the fan diameter (center of fan to equipment) away from any HVAC discharge unit; however, it is the installer's responsibility to verify the safe performance of the fan when operated in the intended environment.**

⚠ **CAUTION: Do not install the fan from a single beam or a conduit box.**

⚠ **CAUTION: Ensure the mounting location will not expose the fan to direct contact with water unless the fan is labeled, "Suitable for use in wet locations."**

1. Identify mounting location

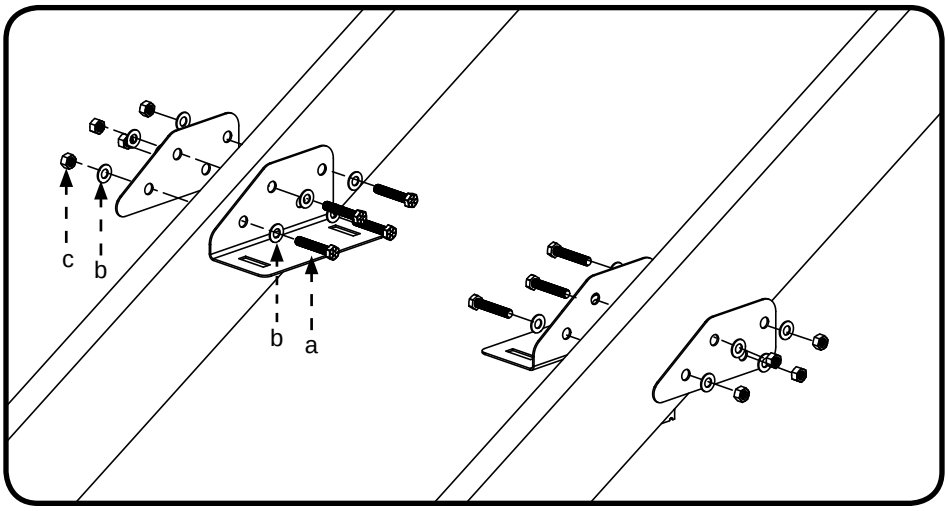
Locate the area on the beams from which the fan will hang. Big Ass Fans recommends mounting the fan so that the airfoils are at least 10 ft (3 m) from the floor. *The center-to-center distance between the two beams between which the fan will hang cannot be greater than 24 in (61 cm).*

2a. Fasten brackets (to vaulted ceiling beams)

Fasten the brackets to the roof structure mounting points at each end with the Mounting Hardware as shown. The brackets should be pointing inward. Torque the bolts to **25 ft·lb (33.9 N·m)**.

Using a level and carpenter's square, ensure the mounting brackets are level and the opposing holes are concentric.

Mounting Hardware (BAF-Supplied):
a. (8) 5/16"-18 x 2-1/2" Bolt
b. (16) 5/16" Flat Washer
c. (8) 5/16" Nut



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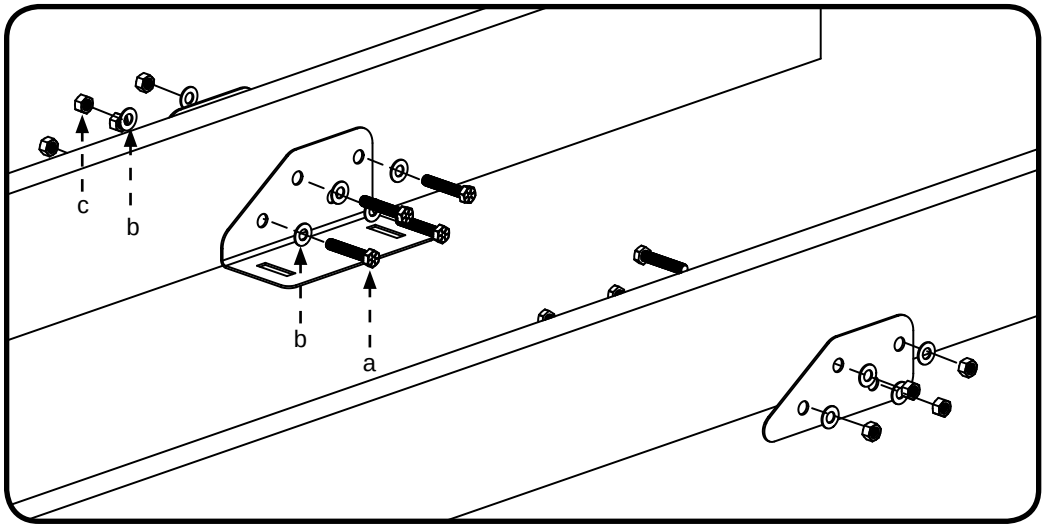
2b. Fasten brackets (to floor joists)

Note: This method should be used when the tops of the joists are inaccessible.

Fasten the brackets to the mounting points on the floor joists with the Mounting Hardware as shown. Torque the bolts to **25 ft·lb (33.9 N·m)**. The brackets should be facing inward and be mounted flush with the tops of the joists or in the centers of the joists. *Note: Ensure the brackets are positioned so the fan will not interfere if the ceiling section is replaced.*

Using a level and carpenter's square, ensure the mounting brackets are level and the opposing holes are concentric.

Mounting Hardware (BAF-Supplied):
a. (8) 5/16"-18 x 2-1/2" Bolt
b. (16) 5/16" Flat Washer
c. (8) 5/16" Nut

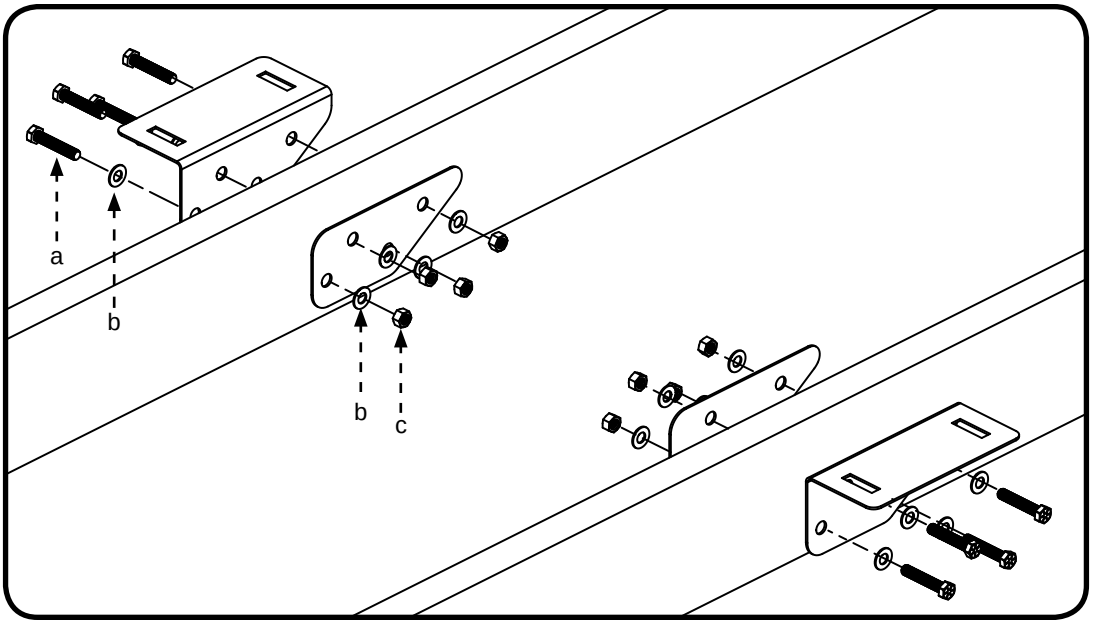


2c. Fasten brackets (to ceiling joists)

Fasten the brackets to the mounting points on the ceiling joists with the Mounting Hardware as shown. Torque the bolts to **25 ft·lb (33.9 N·m)**. The tops of the brackets should be facing outward and flush with the tops of the beams.

Using a level and carpenter's square, ensure the mounting brackets are level and the opposing holes are concentric.

Mounting Hardware (BAF-Supplied):
a. (8) 5/16"-18 x 2-1/2" Bolt
b. (16) 5/16" Flat Washer
c. (8) 5/16" Nut



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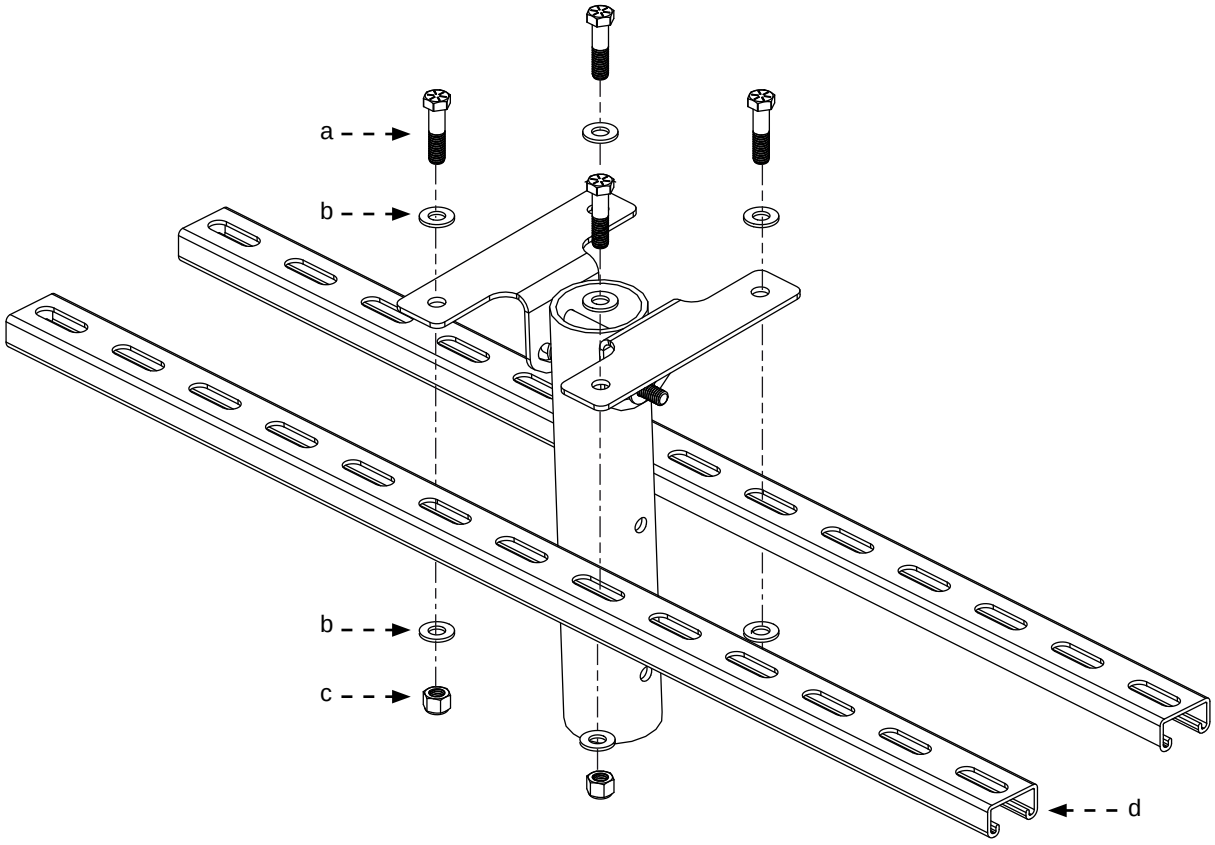
3. Attach mount to wood framing channels

When cutting the wood framing channels, be sure the holes on the each end will line up with the holes on the mounting brackets!

Loosely attach the extension tube to the upper mount to determine where on the channels the mount should be attached. Fasten the mount to the wood framing channels using the Mounting Hardware as shown.

Measure the distance between the mounting brackets (bolt head to bolt head) so that the wood framing channels have enough clearance in between the brackets. Cut both wood framing channels to the measured length.

Mounting Hardware (BAF-Supplied):
a. (4) 3/8-16 x 1-1/2” GR 8 Bolt
b. (8) 3/8’’ Flat Washer
c. (4) 3/8” Nylock Nut
d. (2) Wood Framing Channel



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4. Fasten wood framing channels (to brackets)

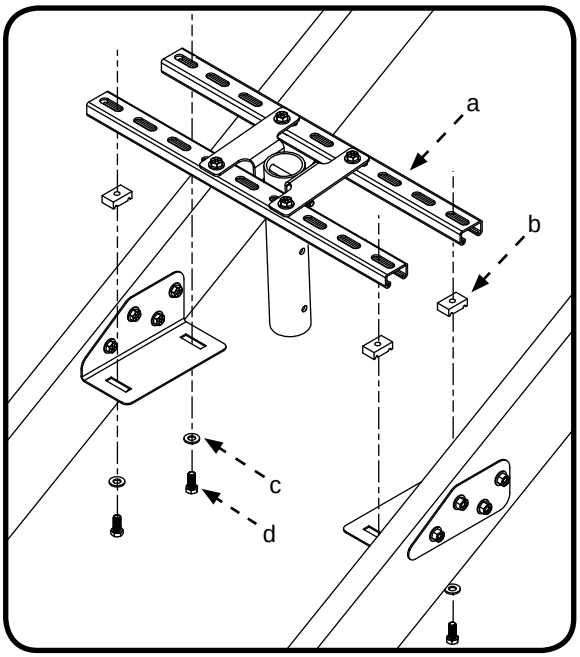
⚠ **CAUTION: The center-to-center distance between the two beams or joists between which the fan will hang cannot be greater than 24 in (61 cm).**

Fasten the wood framing channels to the brackets with the Mounting Hardware as shown. Torque the bolts to **25 ft·lb (33.9 N·m)**. See the appropriate illustration for your specific mounting structure.

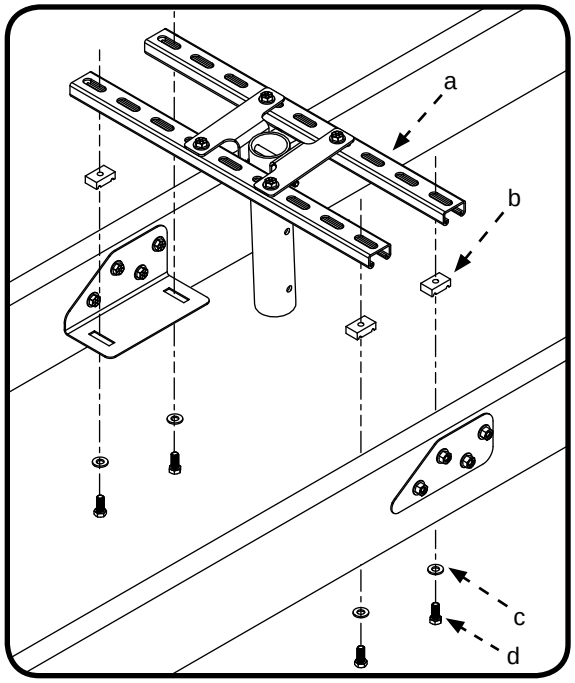
Mounting Hardware (BAF-Supplied):

a. (2) Wood Framing Channel
b. (4) 3/8”-16 Spring Nut
c. (4) 3/8” Flat Washer
d. (4) 3/8”-16 x 1” Bolt

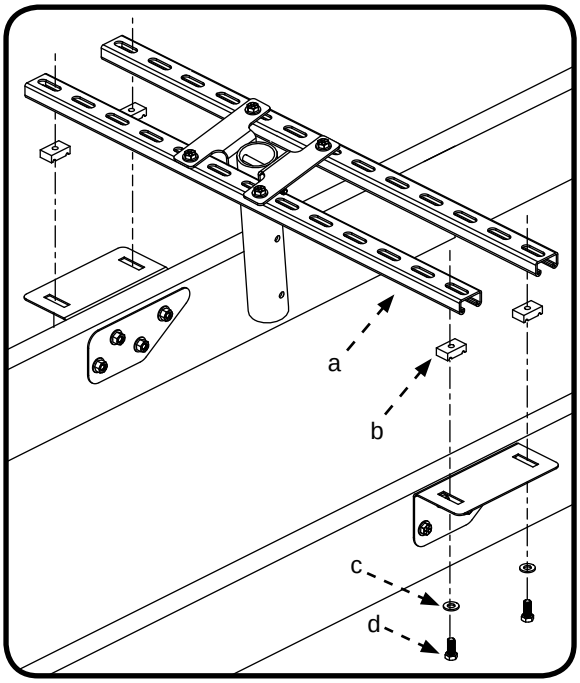
Vaulted Ceiling Beams



Floor Joists



Ceiling Joists



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18 Hanging the Fan

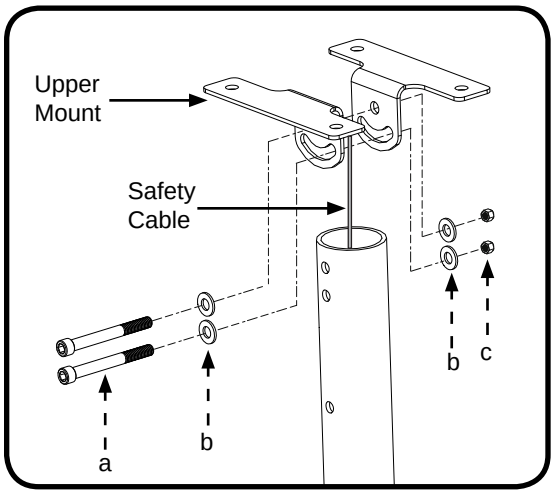
1. Attach extension tube (to upper mount)

Pull the safety cable that is attached to the extension tube through the upper mount, and then fasten the extension tube to the upper mount (already attached to angle irons) using the Extension Tube Hardware as shown. *Note: If the extension tube is already attached, simply secure the bolts.*

Before tightening the bolts, allow the extension tube to hang freely and balance itself.

Tighten the bolts to **10 ft·lb (13.6 N·m)** using a 5/16” Allen wrench and a torque wrench with a 9/16” socket.

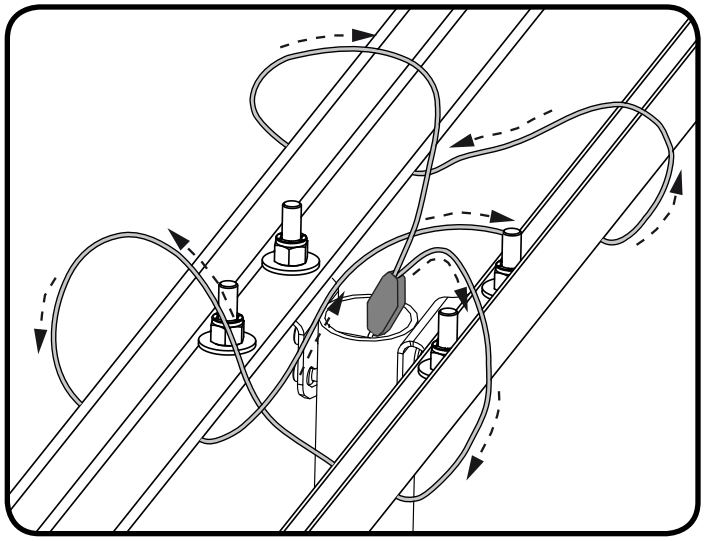
Extension Tube Hardware (BAF-Supplied):
a. (2) 3/8-16 x 3-1/2” Socket Head Cap Screw
b. (4) 3/8” Flat Washer
c. (2) 3/8” Nylock Nut



2a. Secure safety cable (to angle irons)

⚠ **WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service at 1-877-BIG-FANS.**

Secure the safety cable to the mounting structure by wrapping it around the structure and securing the loose ends with the Gripple® as shown. The cable must be drawn tightly around the structure, leaving as little slack as possible with the Gripple tucked inside the extension tube. *Note: Exact mounting installation may differ from the illustration.*



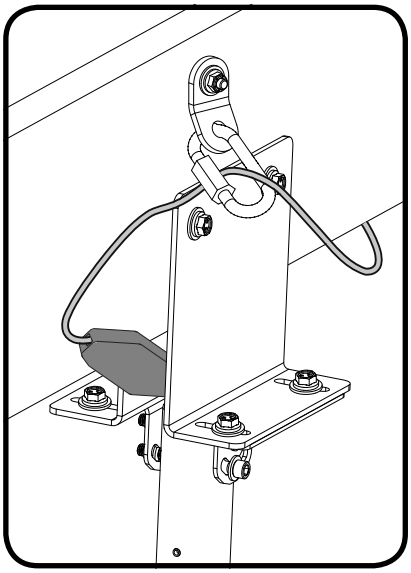
2b. Secure safety cable (to safety clips)

⚠ **WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service at 1-877-BIG-FANS.**

Safety clips are used only when the top of the mounting structure is inaccessible due to a ceiling.

Attach the safety clips to the mounting structure as shown. Secure the safety cable through the (2) safety cable attachment clips, leaving as little slack as possible. Secure the loose ends with the Gripple as shown. *Note: Exact installation may differ depending on the mounting method.*

Safety Cable Hardware (BAF-Supplied):
a. (2) 5/16”-18 x 2-1/4” Bolt
b. (2) 5/16”-18 Nylock Nut
c. (4) 5/16” Flat Washer



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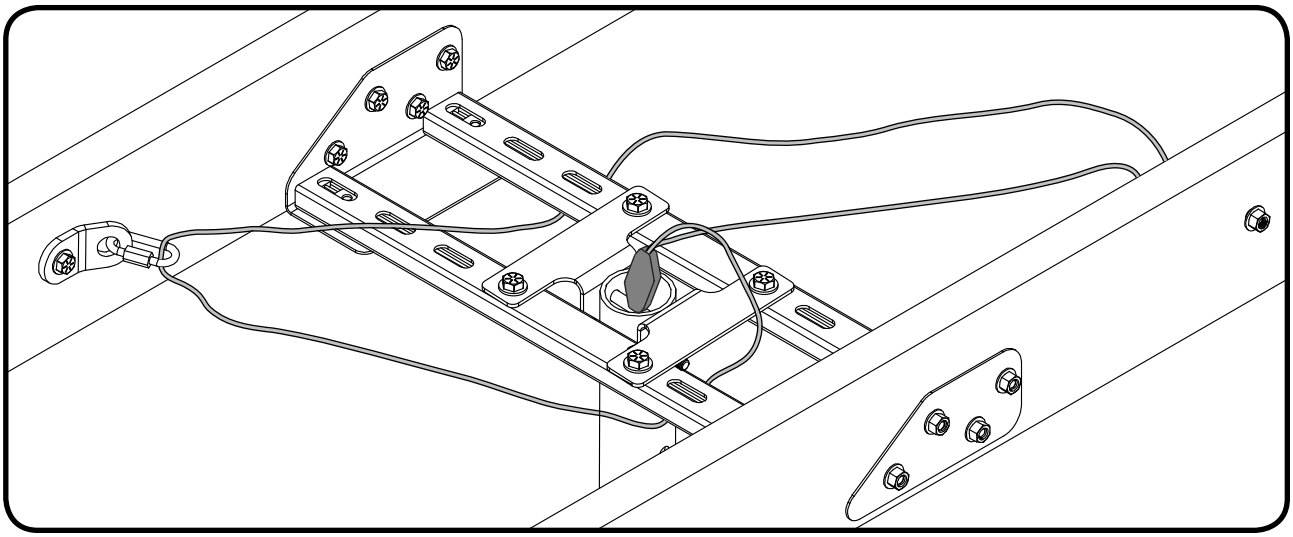
2c. Secure safety cable (to wood frame)

⚠ **WARNING: The safety cable is a crucial part of the fan and must be installed correctly. If you have any questions, call Customer Service at 1-877-BIG-FANS.**

Attach the safety clips to the mounting structure as shown. Secure the safety cable through the (2) safety cable attachment clips, leaving as little slack as possible. Secure the loose ends with the Gripple as shown. *Note: Exact installation may differ depending on the mounting method.*

Safety Cable Hardware (BAF-Supplied):
a. (2) 5/16”-18 x 2-1/4” Bolt
b. (2) 5/16”-18 Nylock Nut
c. (4) 5/16” Flat Washer



3. Attach main fan unit (to extension tube)

Before attaching the main fan unit to the extension tube, route the power cable from motor through the extension tube and upper mount.

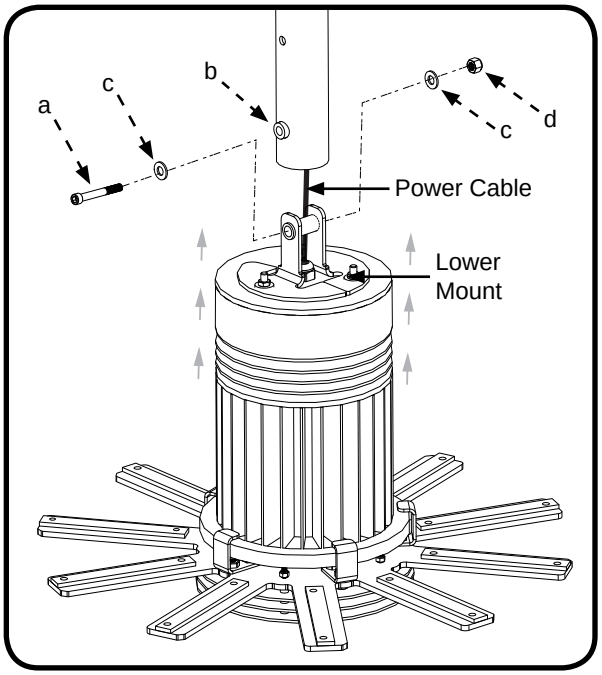
⚠ **CAUTION: The main fan unit is heavy and contains sensitive electronics. Use care when raising it.**

⚠ **CAUTION: Do not discard the main fan unit packaging and foam. It should be used if the fan is ever moved or relocated.**

Raise the main fan unit directly from its packaging to the extension tube. Attach the lower mount to the extension tube using the Main Fan Unit Hardware as shown.

Tighten the bolts to **10 ft·lb (13.6 N·m)** using a 5/16” Allen wrench and a torque wrench with a 9/16” socket.

Main Fan Unit Hardware (BAF-Supplied):
a. (1) 3/8-16 x 3-1/2” Socket Head Cap Screw
b. (1) 3/8” x 3/4” OD x 1/2” Spacer
c. (2) 3/8” Flat Washer
d. (1) 3/8” Nylock Nut



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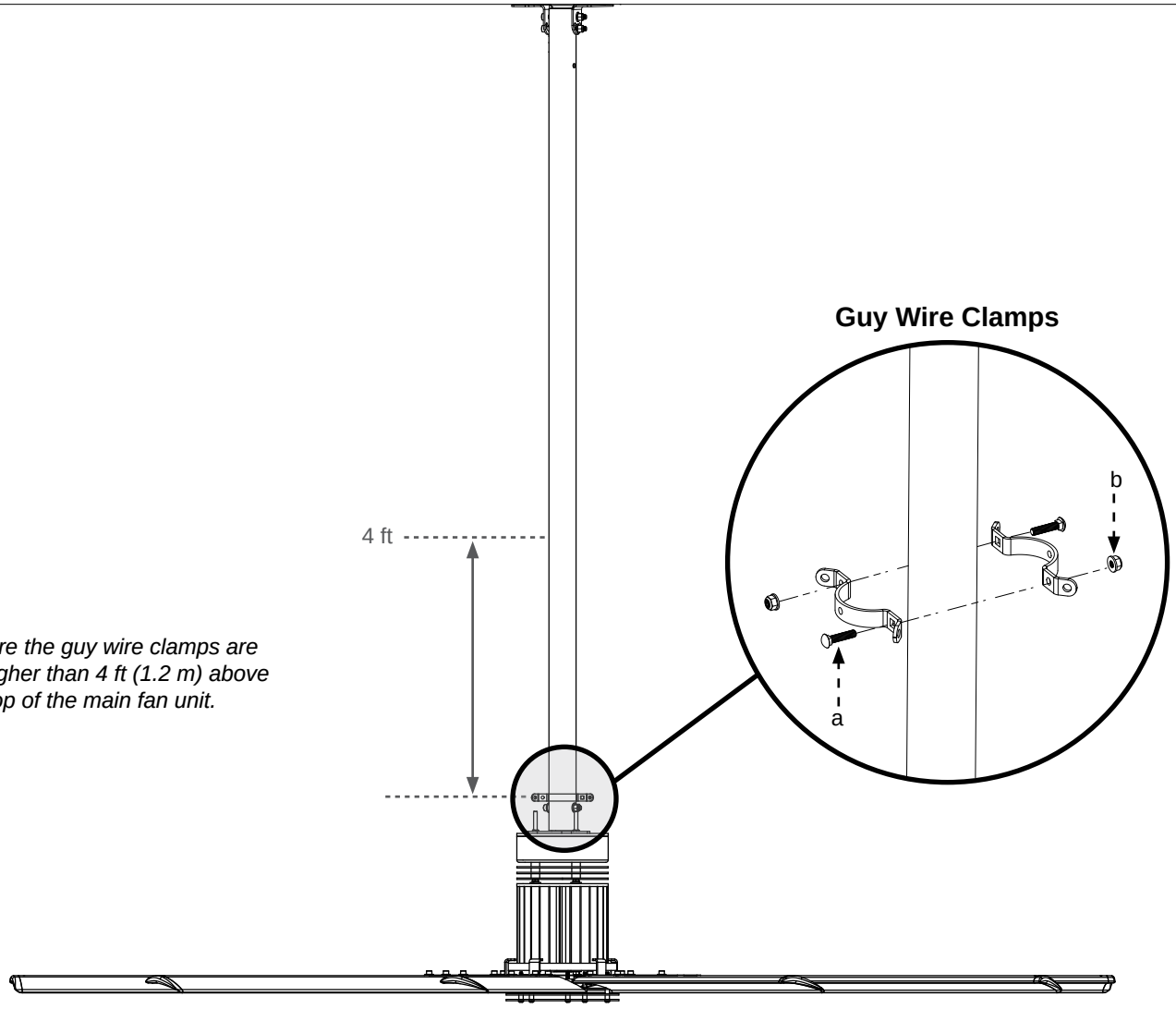
Installing Guy Wires

Guy wires may not be included in your fan order. They are intended to restrain the fan's lateral movement and are only included in fan orders that have extension tubes 4 ft (1.2 m) or longer. Depending on the operational environment (wind, mounting structure, etc.), guy wires may be needed regardless of extension tube length. If, during operation, any lateral movement (wobbling) occurs, a guy wire kit should be purchased from Customer Service using the Optional Parts Order form or by calling 1-877-BIG-FANS.

1. Attach guy wire clamp

Position the clamp on the extension tube as close to the motor as possible, but no more than (4 ft) 1.2 m higher than the top of the main fan unit. Refer to the diagram below. Secure the guy wire clamps with the Guy Wire Hardware.

Guy Wire Hardware (BAF-Supplied):
a. (2) 1/4-20 X 1" Carriage Bolt
b. (2) 1/4-20 Nylock Flange Nut



Ensure the guy wire clamps are no higher than 4 ft (1.2 m) above the top of the main fan unit.

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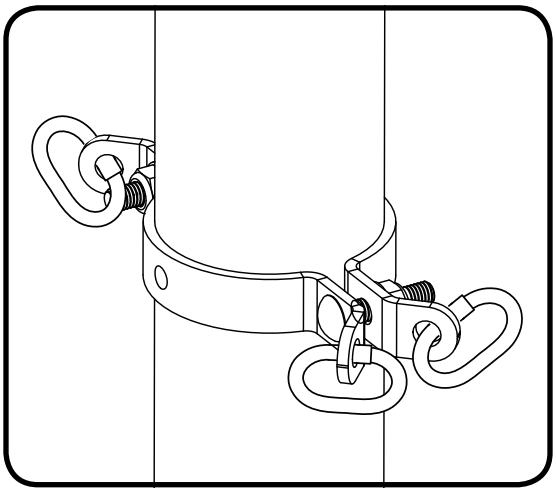
2. Attach locking carabiners to guy wire clamp

Secure the four (4) locking carabiners to the guy wire clamp as shown.

Securely tighten the carabiners.



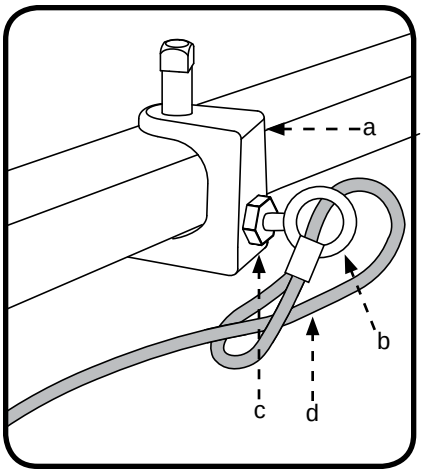
3a. Attach beam clamp (angle iron mounting)

The guy wire should be at a 45° angle from the extension tube (see illustration on the following page). Attach the beam clamp to an angle iron accordingly.

Fasten the small eyebolt and nut onto the beam clamp (the nut will be on the outside of the beam clamp).

Loop the guy wire through its crimped end to secure it to the eyebolt as shown.

Guy Wire Hardware (BAF-Supplied):
a. 1/4” Beam Clamp
b. 1/4-20 x 1” Eyebolt
c. 1/4-20 Hex Nut
d. Guy Wire

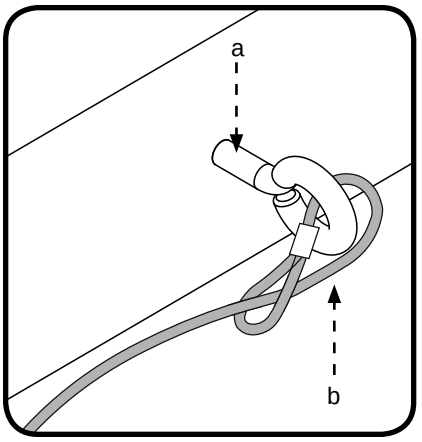


3b. Attach eyebolt (wood frame mounting)

The guy wire should be at approximately a 45° angle from the extension tube (see the illustration on the following page). Attach the eyebolt on wood frame accordingly.

Loop the guy wire through its crimped end to secure it to the eyebolt as shown.

Guy Wire Hardware (BAF-Supplied):
a. 1/4-20 x 1” Eyebolt
b. Guy Wire



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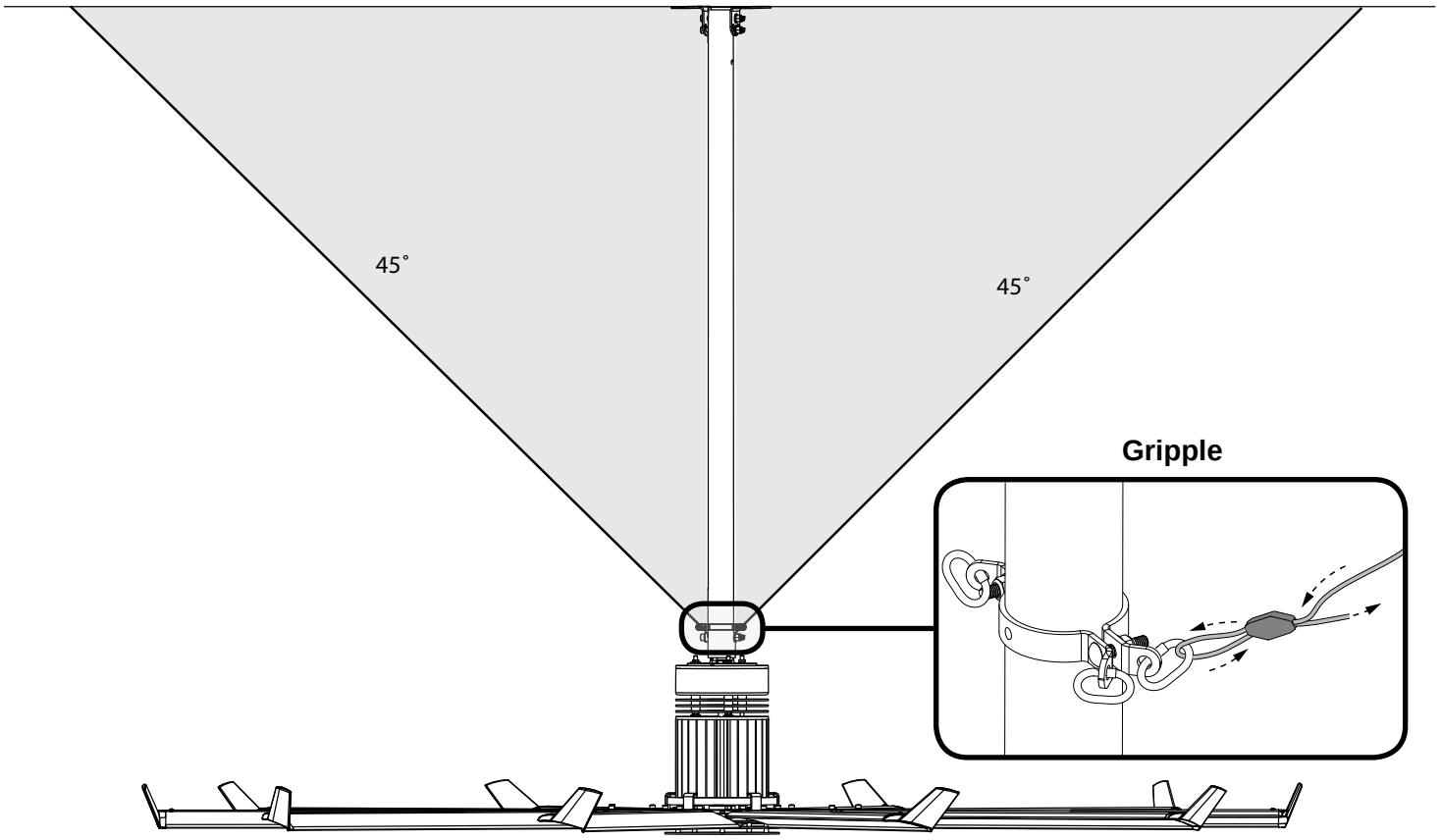
4. Route guy wire through Gripple®

Route the guy wire through the Gripple and the carabiner on the guy wire clamp, and then back through the Gripple as shown below. **Do not tighten the Gripple until the remaining guy wires have been installed.**

Note: To back the guy wire out of the Gripple, insert 1/16" (1.55 mm) Allen wrench into the small hole on the Gripple.



5. Install three remaining guy wires

⚠ **CAUTION: The guy wires should be spaced evenly around the fan.**

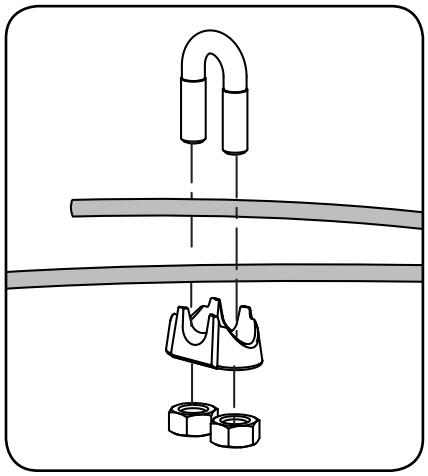
⚠ **CAUTION: Over-tightening the guy wires could throw the fan off balance.**

Repeat steps 3–4 to install the three remaining guy wires.

Evenly cinch all four guy wires into place using the Gripples. The guy wires should be taut, evenly spaced around the fan, and away from the path of the airfoils. Maintain a distance of 6"–8" between the Gripple and the carabiner.

Once all of the guy wires are taut, secure their loose ends with the wire rope clips and torque to **4.5 ft·lb (6.1 N·m)**. *Ensure all electrical cords/cables are unobstructed by the guy wire system.*

Wire Rope Clip



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Installing Airfoils

Big Ass Fans recommends completing electrical installation (p. 25) before installing the airfoils.

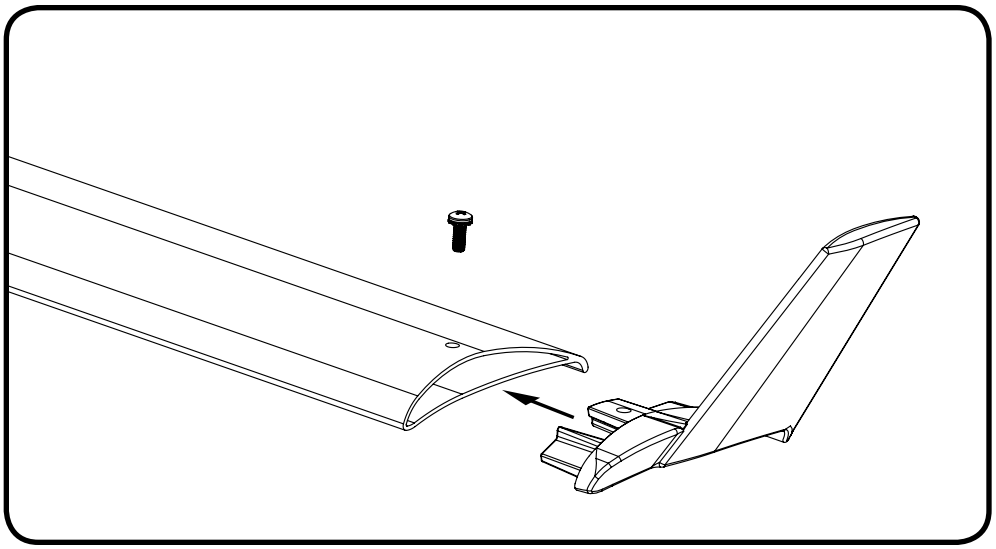
⚠ **WARNING: Disconnect power to the fan before installing the airfoils.**

1. Attach winglets (to airfoils)

Note: Winglets are standard on Isis fans; however, airfoil tips are available. If you opted for the airfoil tips, skip this step and proceed to step 2.

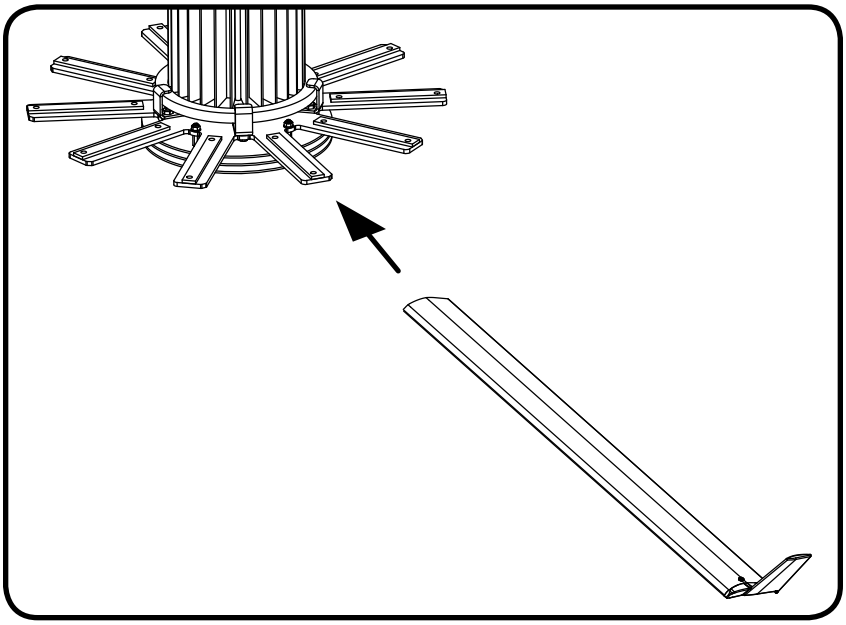
Attach the winglet to the airfoil using the Winglet Hardware as shown. Securely tighten the screws. Attach winglets to all 10 airfoils before attaching airfoils to the fan.

Winglet Hardware (BAF-Supplied):
(10) 10-32 x 1/2” Screw



2. Position airfoils

Slide the airfoils onto the tabs as shown.



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3. Attach airfoils (to main fan unit)

After the fan is completely assembled and securely hanging from the mounting structure, peel off the protective plastic from the bottom of the hub.

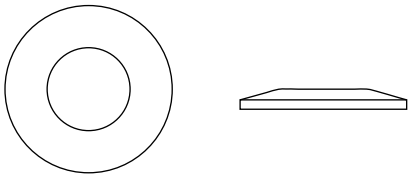
⚠ **WARNING: Disconnect power to fan before installing airfoils.**

Attach the 10 airfoil retainers using the Airfoil Hardware. Moving clockwise around the fan hub, position the airfoil retainers as shown. Hole A of the retainer should be positioned over top of Hole B. **Do not tighten bolts until all airfoil retainers have been attached!**

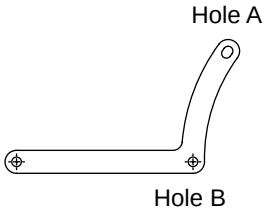
Tighten the bolts along the outside perimeter to **29 ft·lb (39.3 N·m)** using a torque wrench and a 1/2" socket. After the outer perimeter bolts are torqued, tighten the bolts along the inner perimeter to **29 ft·lb (39.3 N·m)**.

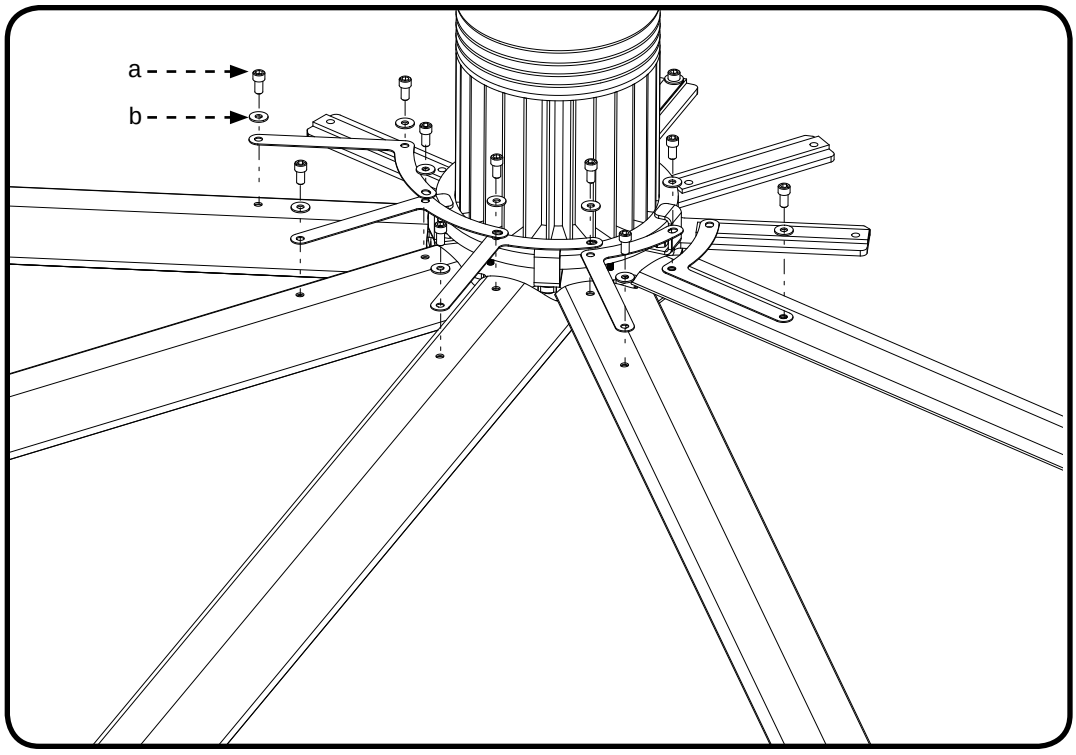
Airfoil Hardware (BAF-Supplied):
a. (20) 5/16-18 x 5/8" GR 8 Bolt
b. (20) 5/16 Belleville Washer

Belleville Washer



Airfoil Retainer





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Electrical Installation 25

⚠ **WARNING: To reduce the risk of electric shock, wiring should be performed by a qualified electrician! Incorrect assembly can cause electric shock or damage the motor and the controller! Hazard of electrical shock!**

⚠ **WARNING: The installation of a Big Ass Fan must be in accordance with the requirements specified in this installation manual and with any additional requirements set forth by the national electric code (NEC), ANSI/NFPA 70-1999, and all local codes. Code compliance is ultimately YOUR responsibility! Failure to comply with these codes could result in personal injury or property damage.**

⚠ **CAUTION: The Big Ass Fans product warranty will not cover damage or failure caused by improper installation.**

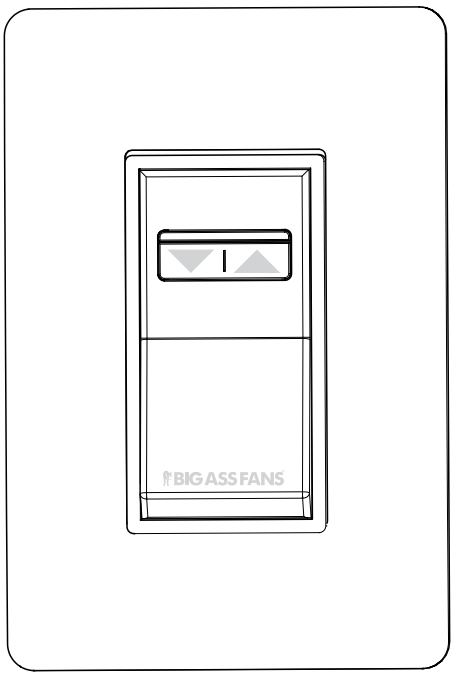
⚠ **WARNING: Exercise caution and common sense when powering the fan. Do not connect the fan to a damaged or hazardous power source. Do not attempt to resolve electrical malfunctions or failures on your own. Contact Big Ass Fans at 1-877-BIG-FANS if you have any questions regarding the electrical installation of this fan.**

⚠ **CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.**

Power requirements

Fan diameter	Input power	Required circuit size	Full load amps
8 ft (2.4 m)	110–125 VAC/60 Hz	10A	3.9
10 ft (3 m)	110–125 VAC/60 Hz	10A	3.9
12 ft (3.7 m)	110–125 VAC/60 Hz	10A	3.9

Wall Controller with Wallplate



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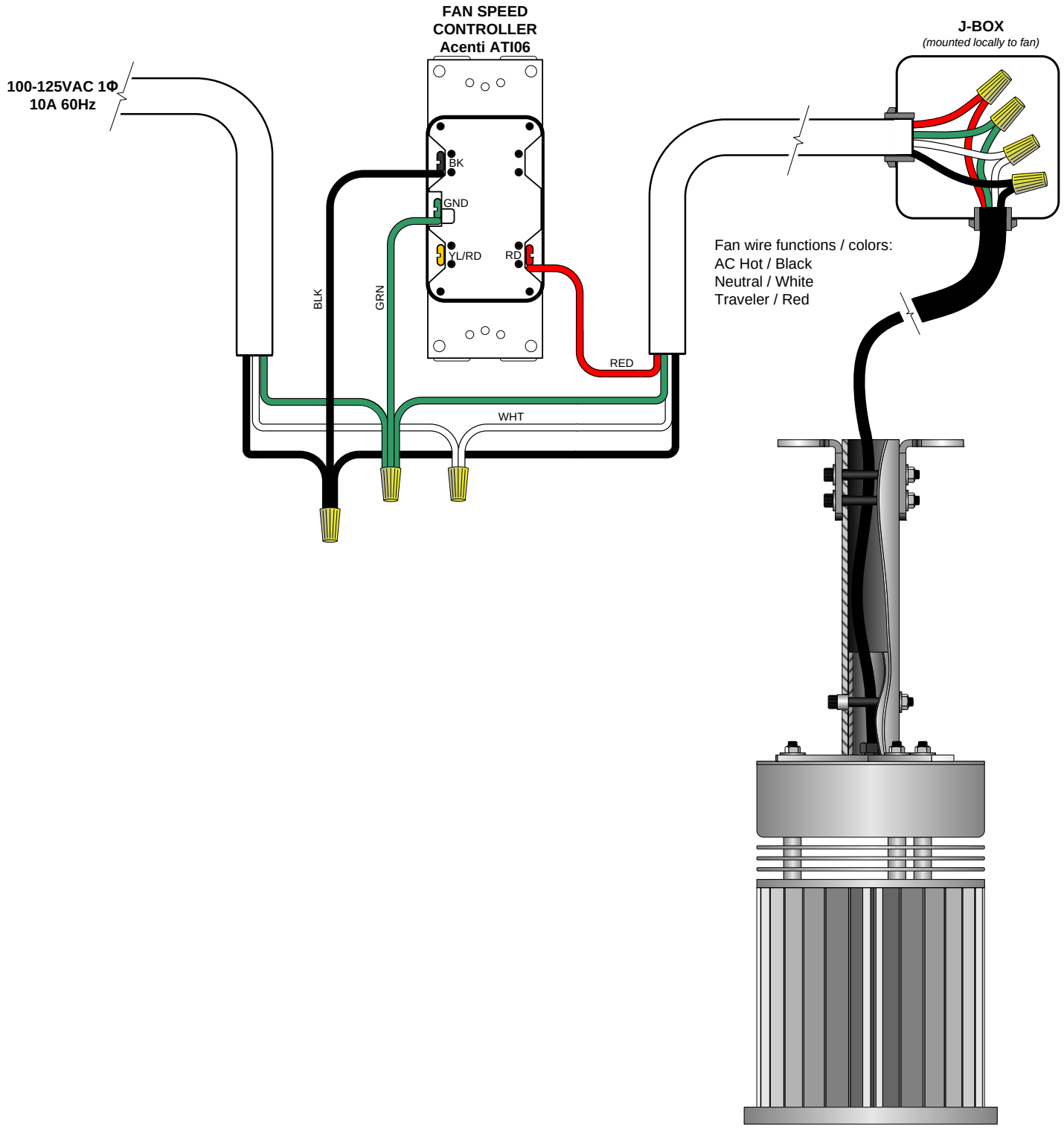
Wiring: single fan application

⚠ **CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.**

If installing the fan using a typical lighting circuit in which the critical red conductor or “traveler” is absent, an optional Limited Access Controller can be installed, allowing the utilization of a typical residential lighting system. See “Limited Access Application” on page 30.



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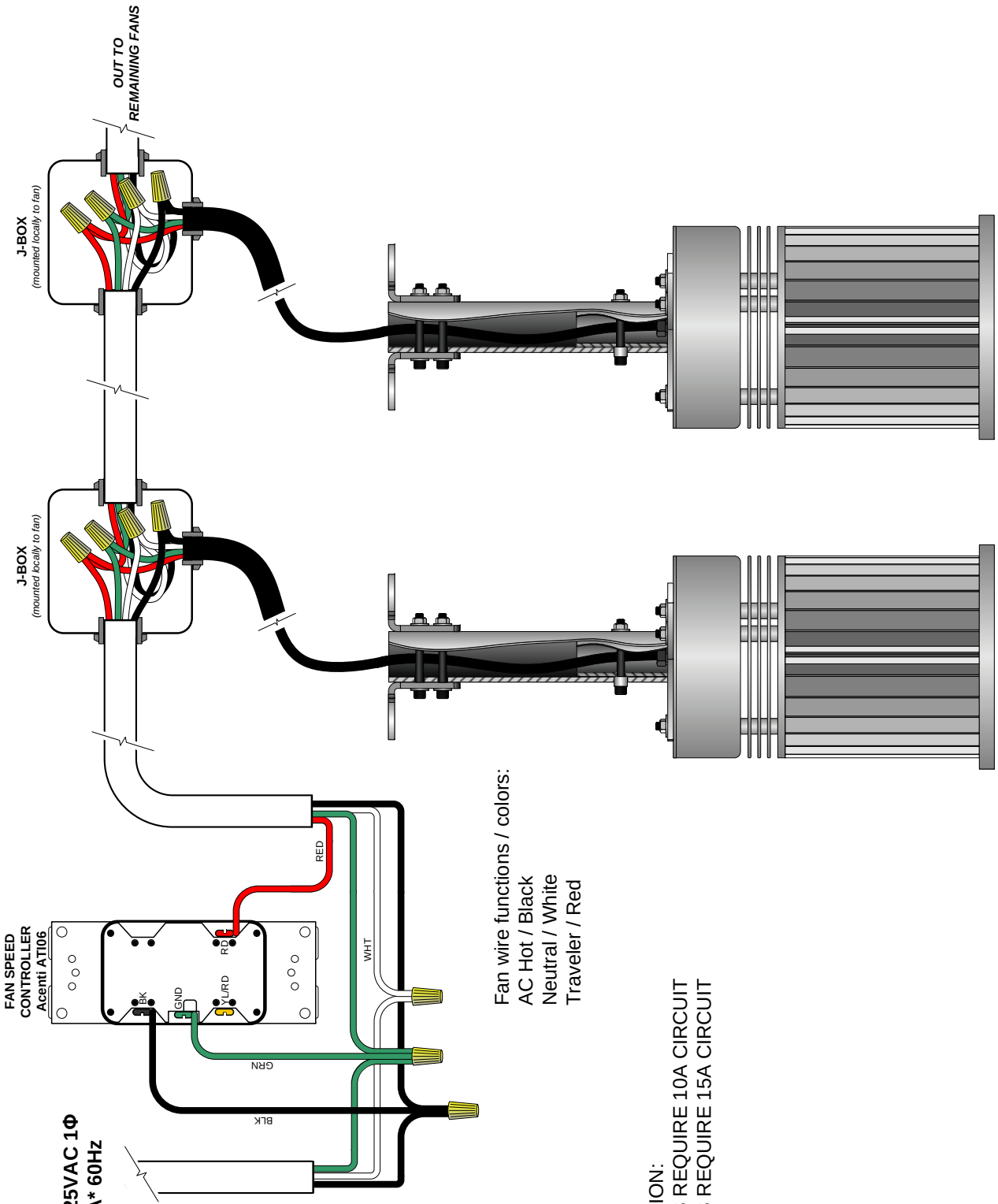
Wiring: multi-fan application

⚠ **CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.**



Fan wire functions / colors:
AC Hot / Black
Neutral / White
Traveler / Red

*ATTENTION:
1-2 FANS REQUIRE 10A CIRCUIT
3-4 FANS REQUIRE 15A CIRCUIT

Up to four (4) fans can be controlled from a single controller. Multiple sets of wires are paralleled downstream from the fan controller. All fans will start or stop simultaneously and operate at the same speed.

This multi-fan application can also be used with a 3-way control configuration as explained on page 32.

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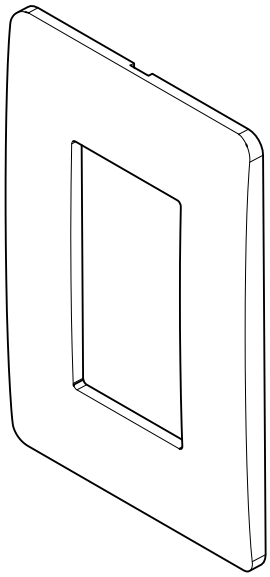
Mounting the wall controller

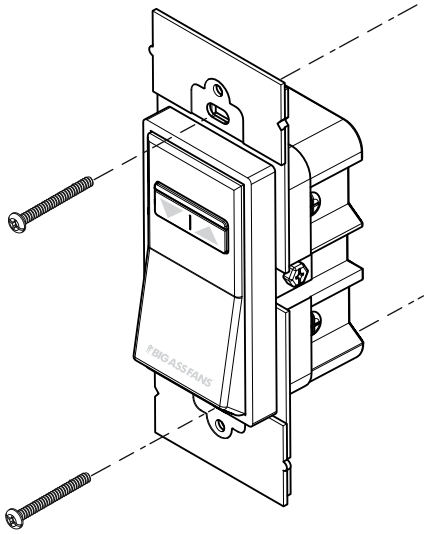
⚠ **WARNING: Disconnect power to the wall box before wiring the fan controller.**

Mount the fan controller so that the fan it controls is visible from the controller location. Install the controller on a flat surface that is readily accessible, free from vibration, and where there is adequate distance from foreign objects or moving equipment.

After wiring the controller (see previous page), mount the controller with two (2) screws. Make sure the controller is oriented as shown below. *Do not overtighten the screws.* Snap the wallplate to the controller.



Wallplate



Controller

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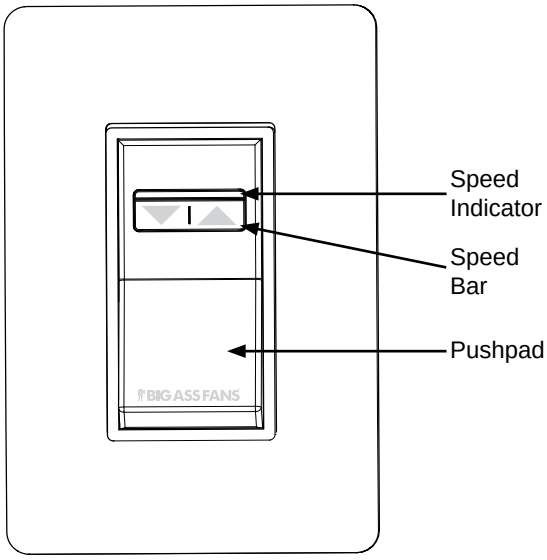
To start the fan, press the pushpad on the controller. The fan may take up to 30 seconds to start rotating. To turn the fan on full speed, press and hold the pushpad.

To stop the fan, press the pushpad or press and hold the left side of the fan speed bar. *Note: When power is turned off, the light at the bottom of the controller remains lit.*

Use the fan speed bar to control the speed of the fan. **To increase fan speed,** press the right side of the fan speed bar. **To decrease fan speed,** press the left side of the fan speed bar.

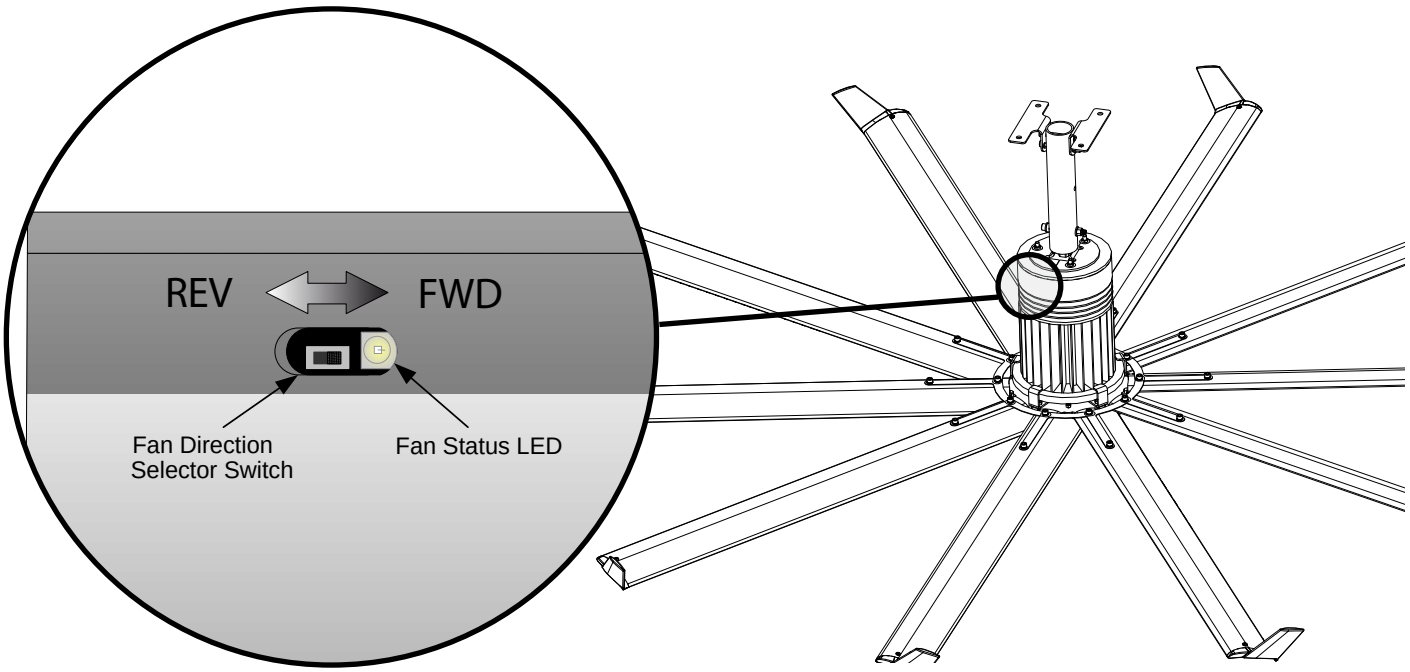


Wall Controller with Wallplate

Changing the fan direction

⚠ **CAUTION: When adjusting the fan direction selector switch, be careful not to damage internal components!**

To reverse the direction of the fan, remove power from the fan. Select the direction of the fan using the Fan Direction Selector switch. Reapply power to the fan. For fan status LED definitions, see *Troubleshooting* on page 34.



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30 Alternative Wiring Methods

To order optional wiring kits, see the Optional Parts Order Form.

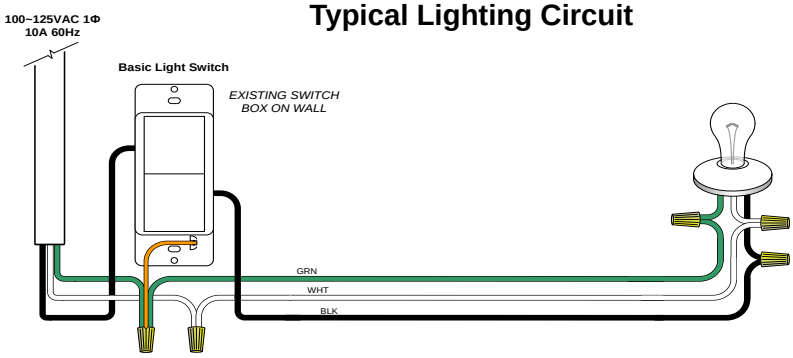
Limited access application

⚠ **CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.**

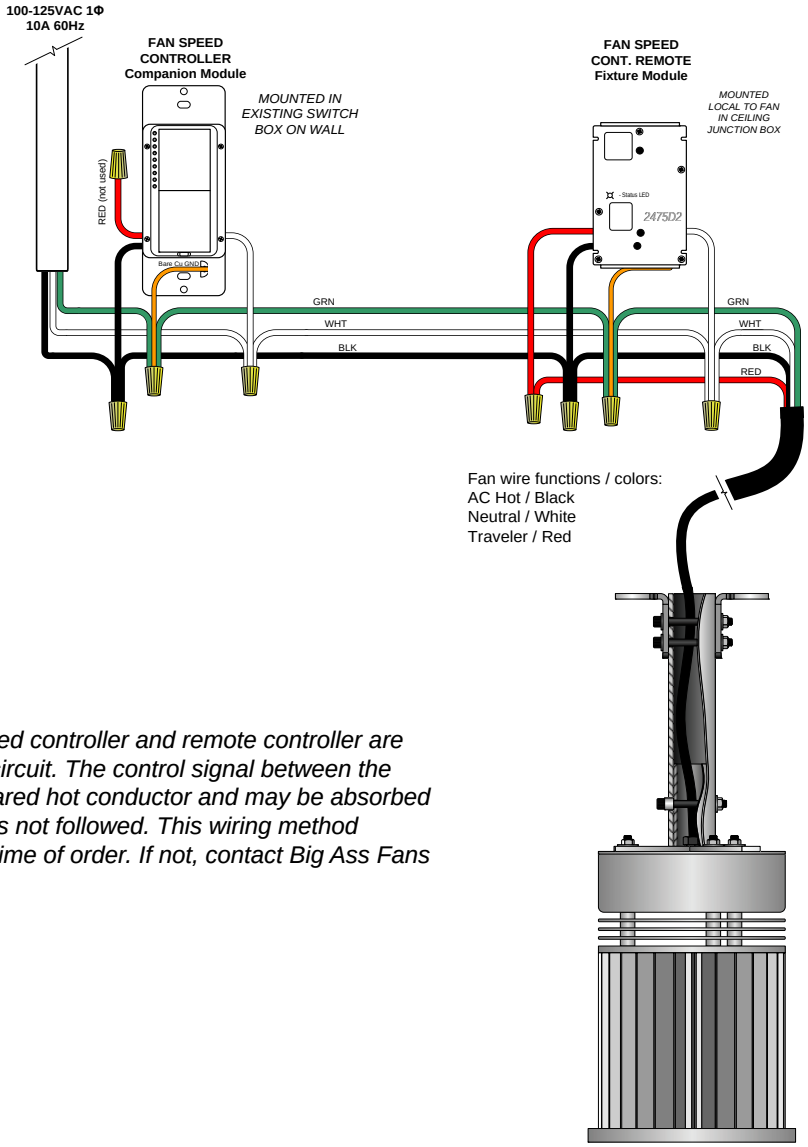
Illustrated on the right is a typical lighting circuit with one basic light switch. The fan operational critical red conductor or “traveler” conductor is absent. For Isis fan applications in which installing a 3-wire plus ground circuit (black, white, and red) is impractical or impossible, an optional limited access fan controller can be installed to eliminate the required red traveler conductor between the controller and the fan, allowing the utilization of the existing 2-wire plus ground circuit (black and white) shown below.

Note: This scenario is common in residences in which only a light circuit was previously installed.

Typical Lighting Circuit



Basic 2-Wire (Plus Ground) Single Fan Application



Note: It is essential that the speed controller and remote controller are installed on a common branch circuit. The control signal between the devices is modulated on the shared hot conductor and may be absorbed at the breaker panel if this rule is not followed. This wiring method should have been noted at the time of order. If not, contact Big Ass Fans Customer Service.

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Limited access fan controller and controller remote operation

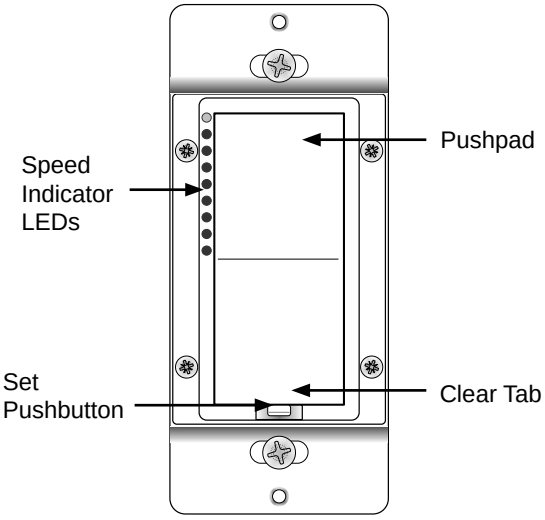
As a convenience, the fan controller and the controller remote sets are factory paired by Big Ass Fans. See the previous page for wiring instructions.

To start the fan, tap the upper portion of the pushpad once. The fan may take up to 30 seconds to start rotating. **To increase fan speed,** press and hold the upper portion of the pushpad. **To decrease fan speed,** press and hold the lower portion of the pushpad.

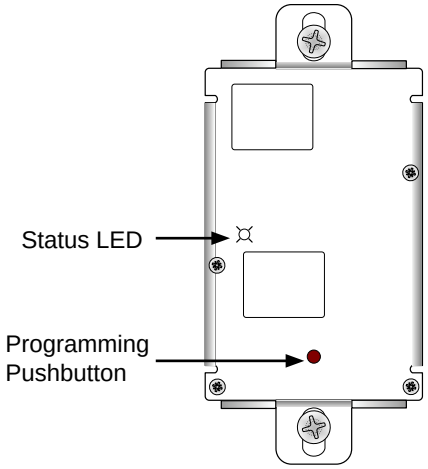
To stop the fan, tap the lower portion of the pushpad once. To disable the fan, pull out the clear tab at the bottom of the controller.

Note: The Limited Access Controller is only necessary if you are utilizing the Limited Access wiring method described on the previous page.

Wall Controller



Controller Remote



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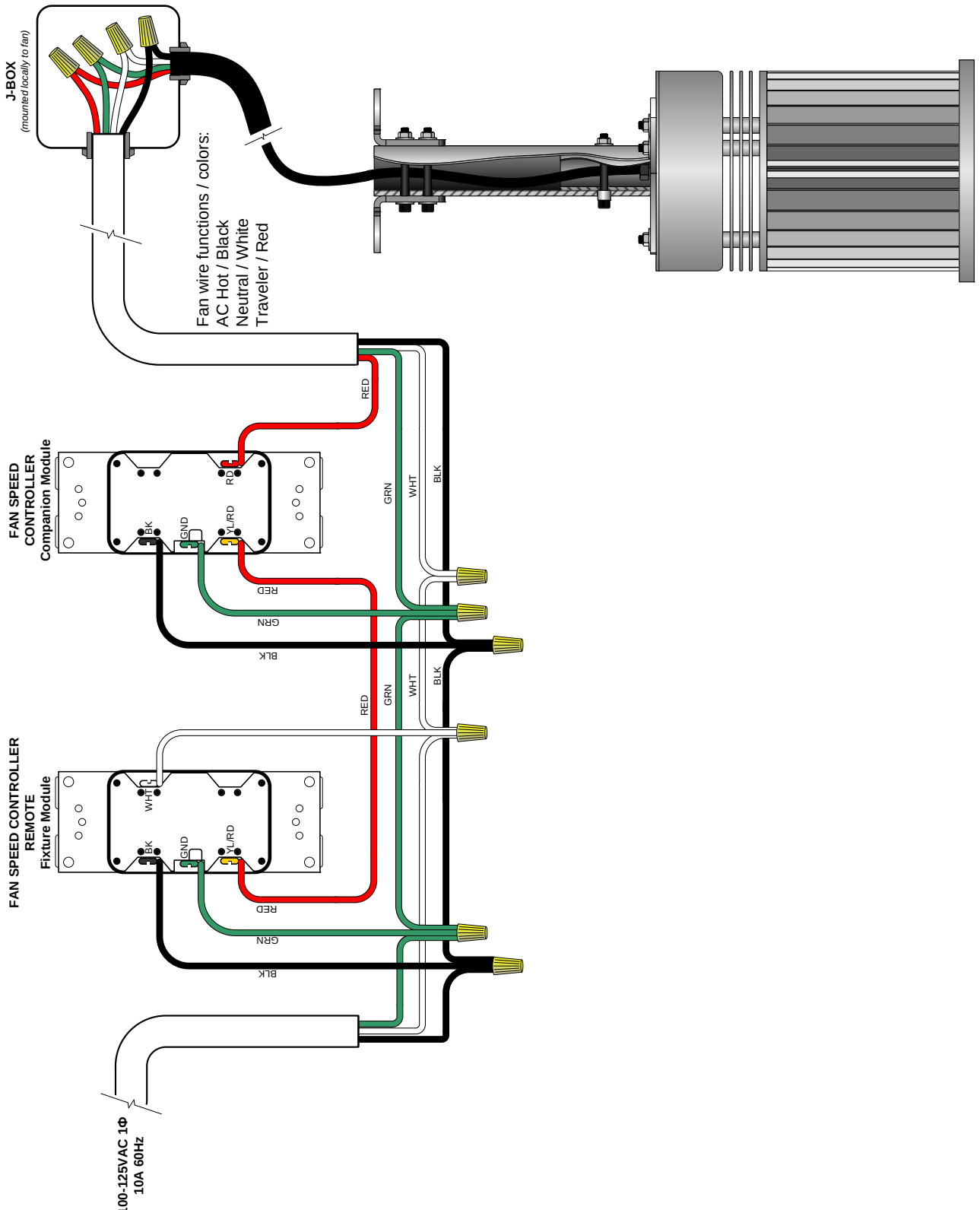
3-way single fan application

⚠ **CAUTION: The fan must operate on a dedicated circuit with a dedicated neutral. Failure to install the fan on a dedicated circuit will cause the fan to operate improperly.**



This method of control is referred to as a 3-way switch because either switch (controller) can be used to start or stop the fan or adjust fan speed. The connection diagram above illustrates how the installer can utilize the existing 3-way wiring to add the additional control location.

Note: The controller provided with the fan (ATI06) does not include a neutral conductor; however, the optional part required for 3-way operation (ATR001-1L) does include a neutral conductor. This is the only physical difference between the two controllers and can be used for identification if necessary.

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Preventive Maintenance 33

⚠ **WARNING: Risk of fire, electric shock, or injury to persons during cleaning and user-maintenance! Disconnect the appliance from the power supply before servicing.**

⚠ **WARNING: Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device (such as a tag) to the service panel.**

⚠ **WARNING: When service or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.**

Please take a few moments each year to perform the following preventive maintenance inspection on your fan to ensure its safe and efficient operation. Before contacting Customer Service, try resolving the issue using the troubleshooting procedures on the following page. If you have any questions, contact Customer Service at 1-877-BIG-FANS. *Note: Actual installation setup may differ from picture.*

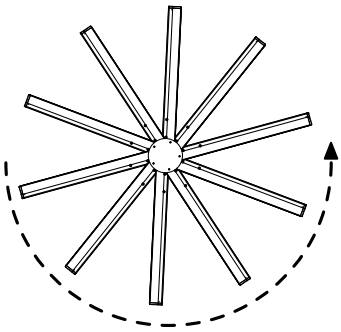
Annual preventive maintenance

Perform the following maintenance procedures each year using the “Maintenance Checklist”:
1. Ensure all four mounting bolts are present and torqued to 25 ft·lb (33.9 N·m).
2. Ensure airfoils are secured to one another by airfoil retainers.
3. Ensure all 20 bolts securing airfoils to fan are present and torqued to 29 ft·lb (39.3 N·m).
4. Ensure all three nuts securing the lower mount to the motor are tight.
5. Ensure all winglet hardware is secure.
6. Check guy wires (if installed) for fraying or damage.

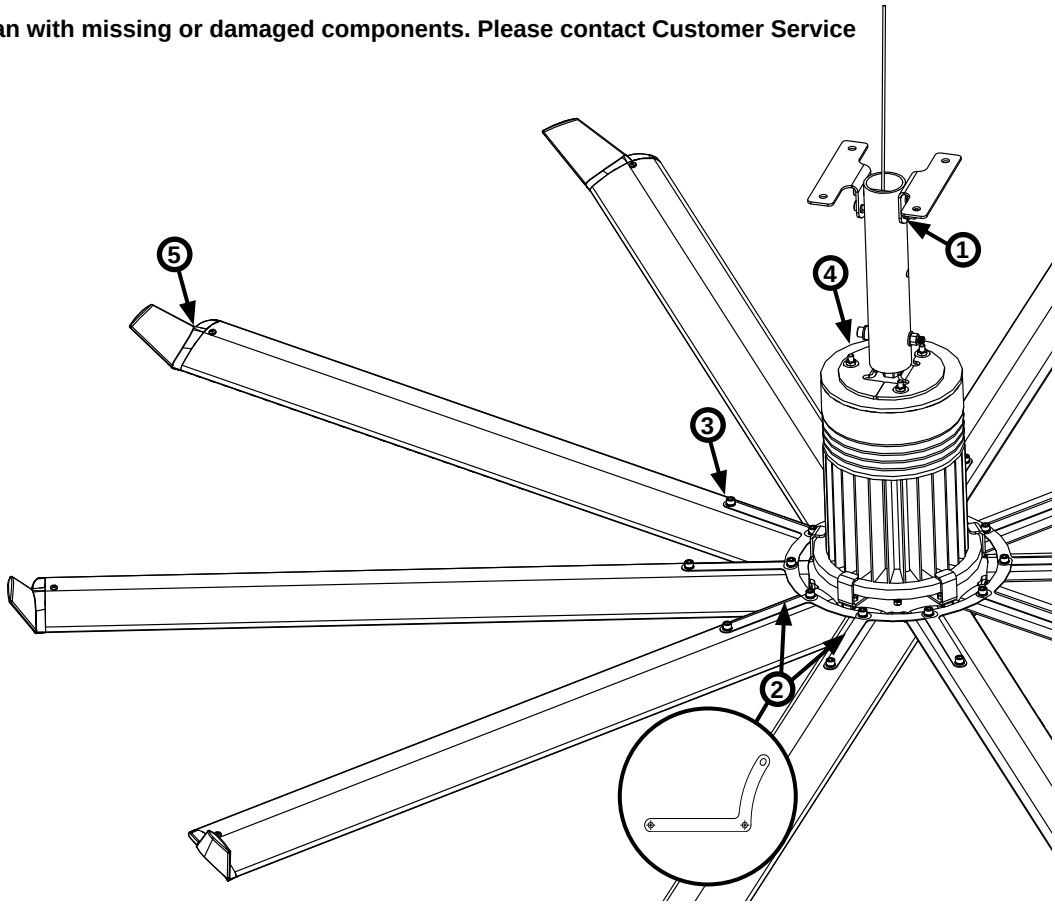
General preventive maintenance

- Verify proper fan rotation. To be effective, the fan must be turning counterclockwise when viewed from the floor.
- Dust airfoils and motor. If desired, use a gentle cleaner or degreasing agent to polish the airfoils. Do not use Clorox® or other chlorine based cleaners! This could result in the release of toxic/fatal fumes. Do not use cleansers on the electronics enclosure.
- Check that the safety cable and upper mounting system is secure.
- Ensure the fan is not exposed to direct contact with water unless labeled, “Suitable for wet locations.”
- Observe the motion of the fan during operation. The fan should not wobble or precess. If any wobble is noticed, ensure the mounting structure is rigid enough to support the fan and that the guy wires, if used, are sufficiently taut. If guy wires were not used, Big Ass Fans suggests installing them. Contact Customer Service at 1-877-BIG-FANS.

⚠ **WARNING: Do not operate a fan with missing or damaged components. Please contact Customer Service at 1-877-BIG-FANS.**



View from Below



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34 Troubleshooting

⚠ **WARNING: When servicing or replacement of a component in the fan requires the removal or disconnection of a safety device, the safety device is to be reinstalled or remounted as previously installed.**

⚠ **WARNING—TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

a. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
b. Before servicing or cleaning unit, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

General troubleshooting

Some issues can be resolved before requesting service. Review the below troubleshooting tips before contacting Customer Service for support.

Symptom	Possible solution(s)
A popping noise is coming from the fan. Airfoil noise is a result of airfoils that are not tightened to the specified torque.	Switch off power at the service panel and lock the service disconnecting means. (If it cannot be locked, fasten a prominent warning device.) Tighten the airfoil hardware to 29 ft·lb (39.3 N·m). If popping still occurs, verify that the airfoils are not contacting each other. If the airfoils are contacting each other, please contact Customer Service at 1-877-BIG-FANS.
The fan will not start.	Verify the following: • All wires are securely connected. • The wall controller has power. • Supply power is adequate and functional. If the fan still does not start, contact Customer Service at 1-877-BIG-FANS.

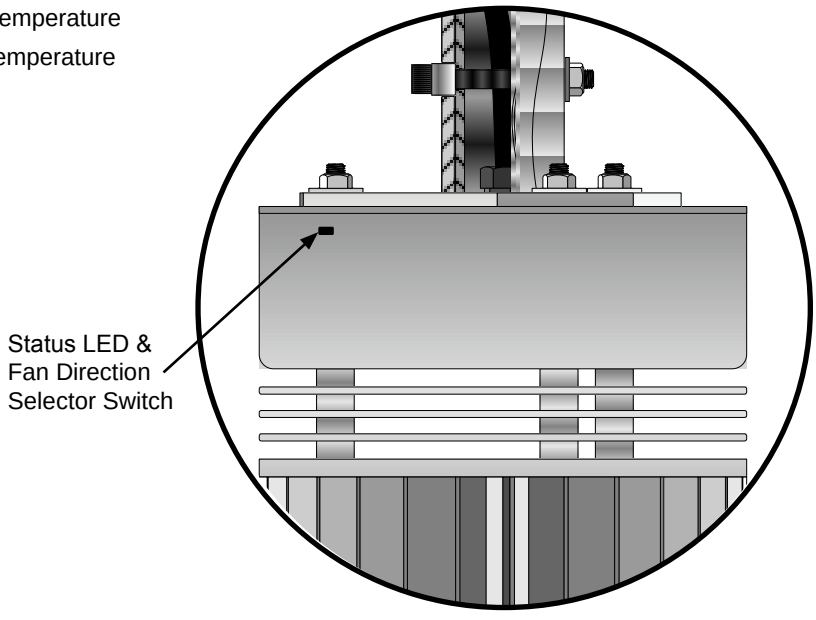
Note: Some motor, gearbox, or drive noise is to be expected and is normal.

Electrical troubleshooting

⚠ **CAUTION: When adjusting the fan direction switch, be careful not to damage the internal components!**

Fan status LED definitions

LED Off:	**OK:**
One 1-Second Flash/5 Seconds Off:	Buss Under / Overvoltage
Two 1-Second Flashes/5 Seconds Off:	Motor Over-current
Three 1-Second Flashes/5 Seconds Off:	Commutation / Motor Stall
Four 1-Second Flashes/5 Seconds Off:	Motor Over-temperature
Five 1-Seconds Flashes/5 Seconds Off:	Drive Over-temperature



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BIG ASS FANS®

Annual Maintenance Checklist

Fan Model:

Serial #:

Location:

Date	Initials

Fan Model:

Serial #:

Location:

Date	Initials

Fan Model:

Serial #:

Location:

Date	Initials

Optional Parts Order Form

Fully complete this form, and then fax to Big Ass Fans at **859-967-1695**. A Big Ass Fans representative will phone or e-mail you with the total cost of part(s) and shipping. Credit card information will also be obtained at that time.

Optional parts

Enter the number in the Quantity column for the required part.

Quantity	Part Description
	I-Beam Adapter Mounting Kit (Large)
	I-Beam Adapter Mounting Kit (Small)
	L-Bracket Mounting Kit
	Z-Purlin Bracket Mounting Kit
	Wood Frame Mounting Kit
	Limited Access Wiring Kit (2474D)
	3-Wire Multi-Way Wiring Kit (AT00R-1L & AT106)
	Guy Wire Kit

Shipping information

Enter your shipping address and contact information in the fields below, and then select your preferred shipping method.

Company Name: _____

Contact Name: _____

Shipping Address: _____

City, State, ZIP: _____

Phone Number: _____ Ext: _____

E-mail Address: _____

☐ I prefer UPS Ground Shipping.

☐ I prefer UPS Next Day Air Shipping.

Limited Warranty

Congratulations on your purchase of a Big Ass Fan! We are delighted that you have chosen our product to improve the quality of your indoor environment, and hope you'll have much pleasure using the fan for years to come.

What is covered?

This Warranty covers any defects in materials or workmanship under normal use and maintenance that adversely affect the ability of the fan to operate properly when the product is installed correctly according to Big Ass Fans' written installation instructions by a state qualified or licensed electrical contractor and operated pursuant to these instructions, and when such fans are purchased directly from Big Ass Fan Company, Big Ass Fans' Affiliated Companies in Australia, or a Big Ass Fan Company Authorized Dealer. This Limited Warranty is subject to all provisions, conditions, limitations, and exclusions described within this document.

Who is covered?

This Warranty extends to the original purchaser and subsequent owners, but only while the fan remains at the site of the original installation. This Warranty extends through the first installation of the fan and terminates if the fan is moved or reinstalled at a new location.

When does the warranty period begin?

The Warranty Period commences on the date the product is installed, or 15 days following shipment of the product, whichever date is earlier. To obtain warranty service, the customer will be required to provide documentation verifying the date the product was installed.

How long does the warranty period last?

Item	Period of coverage	
	with factory installation	without factory installation
Fan motor/drive and wall controller	10 Years*	5 Years*
All other components	Lifetime**	Lifetime**
Reasonable labor	1 Year*	None

*The 10-Year Warranty Period and 1-Year Labor apply to non-residential installations only, and requires purchased installation by a factory-approved, Big Ass Fans certified installer and the submission of installation documentation by such installer. A 5-Year Warranty Period will apply for proper installations by any other state qualified or licensed electrical contractor. The Warranty is void in its entirety if the product is installed by other than a state qualified or licensed contractor.

**"Lifetime" means a period ending five (5) years after Big Ass Fan Company discontinues manufacturing the product, as such period is defined by Big Ass Fan Company, but in no event shall this period be less than 10 years from the date that the Warranty Period commences, as defined above.

What will Big Ass Fans do?

1. During the Warranty Period, Big Ass Fans will, at its option:
   a. Repair or replace the affected components of any defective product;
   b. Repair or replace the defective product; or
   c. Refund the price you paid for the product upon return of the product to Big Ass Fans, shipping, and insurance prepaid.

2. During the first 12 months of the Warranty Period, with purchase of factory installation for a commercial installation, Big Ass Fans will pay reasonable labor costs, as defined below, that you incur for repairing or replacing a defective fan or any defective components of the fan at the installation location. Alternatively, Big Ass Fans may, at its option, require return of the fan to Big Ass Fans for repair or replacement, shipping and insurance paid by the customer.

The foregoing constitutes your exclusive remedy and the limit of liability for Big Ass Fan Company, and for any and all losses in connection with this product.

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What steps are required to obtain a warranty service?

1. If the fan is operating, immediately turn off the fan.
2. Contact Big Ass Fans Technical Support Department as soon as the issue is discovered by:
   a. Calling 1-877-BIG-FANS (244-3267); or
   b. Going online to www.bigassfans.com/customer_service, completing the technical support form; or
   c. Completing the Warranty Claim Form and the Responsibility Agreement that are located in the back of the Installation Manual and mailing the forms to **Big Ass Fans Technical Support Department, 2425 Merchant St., Lexington, KY 40511**, or by faxing them to **859-967-1695**.

   Technical Support is available from 8:00 a.m. to 5:00 p.m. Eastern Time, Monday-Friday, excluding major holidays. Every effort will be made to respond to all Technical Support requests within 24 hours of receipt.
3. Once the Technical Support Representative has received your warranty claim, a case will be processed. In order to process this case, please have the following information available:
   a. Your name, address, phone number, and installation address
   b. Product brand name, serial number, purchase price, and verification of product installation or premises possession date
   c. Detailed description of the problem you have experienced
4. If the Technical Support Representative determines that the warranty claim is valid and that a replacement part is required, the Representative will process the claim and the replacement part will be shipped to you. Included in the shipment of the replacement part will be any shipping labels and documents needed to return the original part, including a Return Materials Authorization (RMA) number.

   NOTE: Your receipt of the replacement part constitutes your agreement to return the failed part to Big Ass Fans within 15 days of the receipt of the replacement part delivery. If Big Ass Fans does not receive the original part, you will be invoiced for the retail cost of the replacement part, and you will be responsible for payment for the replacement part upon receipt of the invoice. Big Ass Fans reserves all rights it retains under law to collect the retail cost of the replacement part if the original is not returned as specified above.
5. Obtaining service may involve contacting a contractor to remove, repair, or replace the fan, or to remove the fan and return it to us. The cost of labor incurred, for factory installed fans, to remove, repair, or reinstall the fans will be covered only during the first 12 months after the warranty becomes effective, and only pursuant to the terms of the definition of “Labor” below.
6. If we ask you to ship the fan back to Big Ass Fans for repairs or replacement, we will prepay the shipping and insurance for factory installed fans during the first 12 months after the warranty becomes effective; however, you will have to repackage the fan in such a way that there is no damage to the fan in transit. You will be sent any return shipment documentation necessary to help you return the fan to Big Ass Fans.

Please be patient while we arrange for or undertake the necessary warranty service. We will provide you with regular status updates, as well as shipment dates, if appropriate, until your fan is back in service.

Conditions

1. Big Ass Fan Company reserves the right to make the final determination, based on its own evaluation of the fan and all components, as to whether:
   a. The problem in question is the result of a defect in design, workmanship, or materials, and not a result of error, misuse, or abuse on the part of the customer as set forth under the exclusions detailed below;
   b. Noise heard during operation is within normal operating levels, in which case this Warranty would be inapplicable. Note: Certain electrical, motor, or other operating noise may be impossible to eliminate due to the fan design and/or site conditions. Dissatisfaction with normal operating noise levels is not covered by this Warranty, and return of any fans for this reason will be subject to Big Ass Fans’ Return Policy (following page).The remedy of the repair, replacement, or refund is appropriate.
   c. Adverse site conditions, (including, but not limited to, excessive dust, heat, humidity, unstable electric service, or any other unknown or unforeseen condition that affects the proper operation of the products) improper application, or improper installation is determined to be the basis for the failure.
   d. The problem or defect is material and requires action under this warranty; and
   e. The remedy of repair, replacement, or refund is appropriate.
2. If Big Ass Fans determines, in its sole discretion, that the appropriate remedy under the Warranty is a refund, the refund amount will be limited to the price paid by the customer for the product alone, and under no circumstances will it include the cost of labor, shipping, handling, packaging, or any other incidental or consequential costs incurred or anticipated by the customer.
3. With respect to replacement or repair rendered, Big Ass Fan Company reserves the right to use replacement parts that are refurbished. Big Ass Fan Company warrants that the parts replaced or repaired, whether or not they have been refurbished or are original equipment, will operate properly and be free from defects in materials and workmanship for a period of 90 days from the date of shipment to the customer, or for the remainder of the original warranty period, whichever is longer.

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Conditions (cont.)

4. A service fee, parts replacement fee, and shipping charges may be imposed if any fan is returned for warranty service that is missing components or that has been modified in any way. Such fees and charges will vary based upon the actual material and labor costs necessary to replace missing or modified parts and to return the fan to its original factory condition.

Return policy

Returns must be received within 90 days of shipment. Customer will be responsible for return freight charges. A restocking fee of 25% for unopened boxes and 50% for opened boxes applies to all returns.

What is not covered (exclusions)?

1. Units purchased and used outside the USA and its territories, Canada, or Australia.
2. Units purchased from any entity other than Big Ass Fan Company, Big Ass Fan Affiliated Companies in Australia, or a Big Ass Fan Company Authorized Dealer.
3. Units or components where the serial number or part number sticker has been removed or defaced.
4. Defects, malfunctions, failure or physical damage caused by unauthorized service/parts and improper installation, adverse site conditions (including, but not limited to, excessive heat, dust or humidity, unstable electric service, or any other unknown or unforeseen condition that affects the proper operation of the products), mishandling, modifications, or damage while in your possession including failure to provide reasonable and necessary maintenance, which shall include, but not be limited to:
   a. Failure to follow the required installation procedures specified in the Big Ass Fan Company-supplied Installation Manual and in all other documentation supplied with the fans and related equipment;
   b. Failure to follow all relevant codes and ordinances including, but not limited to, the National Electric Code and state and local building codes;
   c. Failure to follow electrical engineering industry standards regarding the approved method of installing solid-state electrical equipment having the characteristics of the fan, the fan control, and their related components, even if such standards are not specifically referenced in any instructions or literature supplied by Big Ass Fan Company;
   d. Failure to use properly all installation and mounting hardware supplied by Big Ass Fan Company;

ATTENTION: Under no circumstances will the Big Ass Fan Company be responsible for remedial work necessary to correct installation procedures by others that do not conform to those established by the instructions, codes, and standards described under items 4.a through 4.d above.

   e. Any modification or alteration of, or adjustment to the fans, fan control, and/or mounting and installation hardware and/or any disassembly of the major components of the fans and fan controls for any purpose whatsoever, including any attempt to diagnose and/or repair any problem, without prior written authorization from Big Ass Fans' Technical Support Department;
   f. Misuse, abuse, accidents, unreasonable use, or Acts of God;
   g. Incorrect electric current, voltage, or supply;
   h. Failure to use fan controls supplied by Big Ass Fan Company unless:
      i. Big Ass Fans' Technical Support Department has provided written permission prior to installation; and
      ii. The fan controls are built, operated, and maintained according to specifications provided to and approved by Big Ass Fans' Technical Support Department.

5. Consequential or incidental damages sustained by any person, entity, or structure as a result of any breach of these warranties, except where such damages may not be excluded by law.
6. Claims made for products that have not been paid for in full
7. Damage caused by premises structural defects, structural movement or settlement, exposure to chemicals, salt water, acid rain or other corrosive elements, excessive humidity, and/or wind.
8. Normal changes to the finish caused by ordinary use or damage to non-factory applied finishes.
9. Damage or failure caused by subjection of the product to conditions outside its design limitations.
10. Defects reported more than 90 days from when they were discovered or should have been discovered.
11. With regard to electrical and electronic components provided by Big Ass Fan Company that comprise part of the products, including motors, motor drives, and variable frequency drives, Big Ass Fan Company relies on the determination by the original manufacturer as to whether the failure of such component was the result of a defect. If the manufacturer of such component determines that there was no defect and therefore refuses to cover it under warranty, Big Ass Fan Company likewise will not warranty such item unless Big Ass Fan Company determines that the failure of such electrical or electronic component was the result of a defect of design, workmanship, or material within some other part of the products.

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Definitions

1. “Labor” shall mean reimbursement by Big Ass Fan Company to the Big Ass Fan Company customer in whose building the product(s) are installed of all reasonable costs paid by the customer to an independent contractor employed to remove, dismantle, reassemble, or reinstall any of the warrantied products during the first year that the product is in service. Big Ass Fan Company may request proof of payment by the customer to the independent contractor of all the charges, and will reimburse the customer only to the extent of those charges that are determined by Big Ass Fan Company, in its sole discretion, to be reasonable and necessary under the circumstances. Under no circumstances will labor reimbursement apply to:
   a. Residential installations;
   b. Non-residential applications where the initial installation was performed by an installer other than a Big Ass Fans’ factory-approved and certified installer;
   c. Installations where the product has been moved subsequent to its initial installation or where any of the other warranty exclusions apply; and
   d. Installations involving a product that has been repaired or replaced.

2. “Operate properly” applies to mechanical, electrical, and structural functions only. No guarantee, unless and except by separate written agreement, is made regarding the dimensions or air movement generated or the appropriateness of the effectiveness of any product for its intended purpose or for the customer’s particular application.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, AND OF ALL OTHER OBLIGATIONS AND LIABILITIES ON BIG ASS FAN COMPANY’S PART, AND BIG ASS FAN COMPANY NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCTS. NO OTHER WARRANTY, EXPRESSED OR IMPLIED, WHETHER OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY OR OF ANY OTHER KIND, WHETHER OR NOT SIMILAR IN NATURE TO ANY PREVIOUSLY SPECIFIED, SHALL EXIST WITH RESPECT TO SUCH PRODUCTS, ALL SUCH WARRANTIES BEING HEREBY WAIVED BY CUSTOMER. UNDER NO CIRCUMSTANCES SHALL BIG ASS FAN COMPANY BE LIABLE FOR ANY LOSS, DAMAGE, COST OF REPAIR, OR CONSEQUENTIAL DAMAGES OF ANY KIND IN CONNECTION WITH THE USE, SALE, OR REPAIR OF ANY PRODUCTS PURCHASED FROM BIG ASS FAN COMPANY, UNLESS SUCH DAMAGES CANNOT BE EXCLUDED BY LAW.

Big Ass Fan Company reserves the right to change this warranty at any time without advance notice.

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Replacement of products under warranty acknowledgment & return instructions

If you believe a part failed during normal operation and is covered under warranty, Big Ass Fans will ship a replacement part to you pursuant to your notice that you will be replacing the original part within 10 days. The replacement part will be shipped to you prior to our receipt of the item that failed, and prior to our evaluation of this part to determine the reasons for its failure and whether it is covered under warranty.

In order to evaluate the cause of the product failure, we will need you to return the original part to our offices within 10 working days of receipt of the replacement part. Should the part be covered under warranty, you will not be charged for the replacement item; however, you will be charged for the replacement part plus shipping if (1) the part is not under warranty because the source of failure is outside the scope of the warranty, or (2) the warranty period has expired. If there is no warranty coverage, we will send you a detailed letter of explanation. We also will charge you for the replacement item plus shipping and handling if you do not return the original item within 10 days of the receipt of the replacement item.

Instructions for returning the original item

1. Please use the return label that is included in the box containing the replacement part. The return shipment address is:

   Big Ass Fan Company
   ATTN: RMA#_____
   2425 Merchant Street
   Lexington, KY 40511

2. Use the packaging for the replacement part to return the original part.
3. Include the packing list we have provided which includes the RMA#.
4. If the part weighs over 50 lbs, ship the part using one of the following Authorized Truck Lines and bill the freight costs collect. We will only charge back the freight costs if the original part is not under warranty, or if you do not return the original component within 10 days of receipt of the replacement.
5. If the part weighs 50 lbs or less, call Customer Service for our UPS Ground account number.

If you have questions, please contact us at 1-877-BIG-FANS.

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BIG ASS FANS®
Warranty Claim Form

2425 Merchant Street
Lexington, KY 40511
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigassfans.com

Name (print):_____ **Signature:**_____

Company:_____

Shipping Address:_____

City/State/ZIP:_____

Phone:_____ **Fax:**_____

Items Returned:_____ **Date of Purchase:**_____

Reason(s) for returning item (please provide detail, including length of time after fan had been in operation that problem was noticed, nature of problem, any attempts you made to remedy the problem, etc.):

ATTENTION: Do not return any item without first being assigned an RMA# by Big Ass Fan Company Customer Service Department. The RMA# must appear on the outside of the box being returned. Items without an RMA# will not be accepted.

Date replacement parts should be shipped (if known):_____

Please do not request shipment until you are prepared to install; you may call us at 1-877-BIG-FANS to arrange shipment when you have scheduled installation.

Acknowledgment of Receipt of Warranty Return Notification
(to be completed by Big Ass Fan Company)

Acknowledged by:_____ **Date:**_____

RMA#:_____

Authorized Truck Line(s):_____

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Responsibility Agreement

2425 Merchant Street
Lexington, KY 40511
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigassfans.com

To: Big Ass Fan Company

The undersigned understands and acknowledges receipt of the Warranty Claim Form and Instructions and agrees that Big Ass Fan Company has the right, upon receipt of returned merchandise, to make final determination as to whether this merchandise should be replaced at no cost under Big Ass Fan Company's stated warranty policy.

The undersigned further agrees that if Big Ass Fan Company determines that this merchandise does not qualify under its stated warranty policy, Big Ass Fan Company can invoice for the replacement merchandise, plus shipping and handling for the original part and all replacements, and such invoice will be paid within 15 days of receipt of the same.

The undersigned agrees to ship to Big Ass Fan Company's location at 2425 Merchant Street, Lexington, KY 40511 all of the merchandise replaced by Big Ass Fan Company, including, but not necessarily limited to, defective or failed components, within 10 working days of the receipt of the any replacements.

The undersigned further agrees that if said replaced merchandise has not been shipped to Big Ass Fan Company within 10 working days, Big Ass Fan Company can invoice for the replacement merchandise plus shipping and handling, and the invoice will be paid within 15 days of receipt.

Signed:_____

Title:_____

For:_____
(Name of Company)

Date:_____

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BIG ASS FANS®

Check-In Procedure

(for Big Ass Fan Certified Installers Only)

2425 Merchant Street
Lexington, KY 40511
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigassfans.com

ATTENTION: These items must be completed prior to any additional installation crew members entering job site or any installation material being unloaded.

Company:_____ **Job Name:**_____

Address:_____

City/State/ZIP:_____

Contact Name:_____ **Phone:**_____

E-mail:_____

☐	Fan placement is to be in accordance with agreed upon original Scope of Work and Layout. If this is to change, please note change and consult Field Service Manager for approval.
☐	Installation techniques discussed (type of conduit, L-brackets if required, mounting technique explained). If extension tubes are longer 4 ft (1.2 m), the guy wires are explained and fully understood.
☐	Times in/out, duration, and schedule presented and accepted.
☐	Time (please list # of employees and total duration of jobs):
☐	Safety rules and regulations brought to installer's attention (e.g., badges, safety harnesses, vests, hard hats, footwear, lock out/tag out, certification processes, work area free of trash and debris, etc.). If there are any areas that are forbidden or secure, they are brought to the supervisor's attention and instructed not to enter. If there are any special site conditions (i.e., open areas and operating machinery to be avoided), they are also brought to the supervisor's attention and instructed how to bypass the area if required. Safety Rules and Regulations listed:
☐	The facility manager understands all electrical requirements (i.e., breaker size, voltage, brand, main panel space, etc.) and they are in accordance with original Scope of Work and Layout.
	Additional comments:

Customer Signature:_____ **Contractor Signature:** _____

Printed Name:_____ **Printed Name:**_____

The supervisor is to hold all documents until the job is complete, and then send all forms back to Field Service Manager. The forms will consist of the service/work order, Check-In document, and Close-Out document. The installation crew will not receive payment until all forms are signed by the facility manager and the supervisor. These documents will then be forwarded to the Field Service Manager at Big Ass Fans.

BIG ASS FANS®

Close-Out Procedure

(for Big Ass Fan Certified Installers Only)

2425 Merchant Street
Lexington, KY 40511
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigassfans.com

Company:_____ **Job Name:**_____

Address:_____

City/State/ZIP:_____

Contact Name:_____ **Phone:**_____

E-mail:_____

Field Crew Supervisor and facility manager are to walk-thru completed installation.

☐	The installation is complete and on time in accordance with the original Check-In document. If not, explain:
☐	Conduit runs accepted and installed in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
☐	Fan placement correct in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
☐	Breaker size and wire type correct in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
☐	All Safety Rules and Regulations met in accordance with the Check-In document, Scope of Work, and Layout. If not, explain:
☐	Fans have been running for over an hour and operate without visible defect or issue.
☐	The fan is spinning in the correct direction (counter-clockwise when viewed from floor).
☐	Angle irons are securely fastened and are without any apparent problems in accordance with installation techniques discussed at check-in.
☐	If extension tube is 4 ft (1.2 m) or longer, guy wires are in place and there is no evidence of a wobble.
☐	Supervisor has supplied and explained the Installation Guide. If not, explain:
☐	The supervisor has explained and I understand how to operate fan including starting/stopping, speed operation, and power disconnect. If not, explain:
☐	Time in/out and duration are in accordance with Check-In document:
	Additional comments:

Customer Signature:_____ **Contractor Signature:** _____

Printed Name:_____ **Printed Name:**_____

The supervisor is to hold all documents until the job is complete and send all forms back to Field Service Manager. This will consist of the service/work order, Check-In document, and Close-Out document. The installation crew will not receive payment until all forms are signed by the facility manager and the supervisor. These documents will then be forwarded to the Field Service Manager at Big Ass Fans.

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2425 Merchant Street Lexington, KY 40511 1-877-BIG-FANS